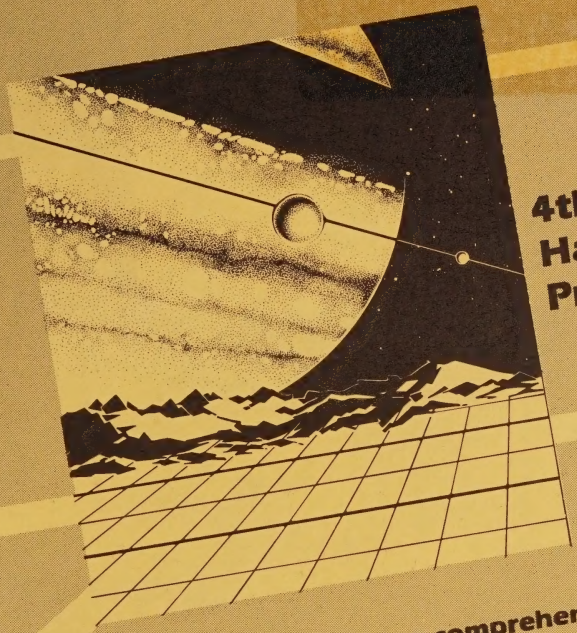
REPEATER JOURNAL

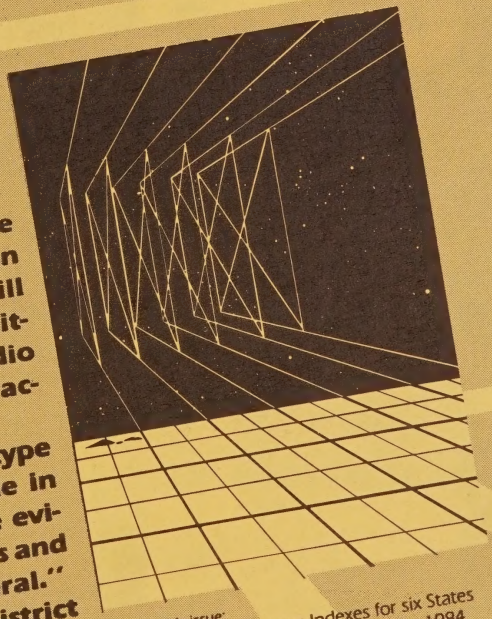
August, 1984
1.25

CVRA-SouthEastern Repeater Association, Inc.



4th & 8th Call District VECs Have Volunteer Examination Program underway . . . . . .

See Stories Inside.



"We want to provide a comprehensive and strictly controlled examination program at regular intervals which will motivate radio amateurs to develop suitable knowledge of regulations, radio theory, code skill, and operating practices."

"Amateurs upgrading under this type of program will have a sense of pride in their accomplishments, which will be evident in day-to-day operating practices and will upgrade Amateur Radio in general."
-WCARS-VEC 4th Call District

Also in this issue:
- Updated Repeater Indexes for six States
- Remaining Hamfest Calendar for 1984
- Report on 1984 ARRL LPM

Representing UHF-VHF Interests Throughout Virginia, North Carolina, South Carolina, Tennessee & West Virginina

FM-2033

2m C-MOS MICROPROCESSOR CONTROLLED
DIGITAL SYNTHESIZER FM TRANSCEIVER

Shown actual size.

6 in 1

Exclusive KDK 6 in 1 control is now joined by 6 exciting new KDK features:

NEW! % Soft Orange background Liquid Crystal Display (LCD) for direct sunlight viewing plus lighting for night viewing.

NEW! % Offset (+, −, S) stored in memory along with the frequency information.

NEW! % Frequency coverage of 142.000 to 149.995 MHz for M.A.R.S. and C.A.P. usage.

NEW! % Chrome front panel with accent knobs and lighter color on case to match today's auto decor.

NEW! % Scan for signal now has 3-second delay before resume after loss of signal.

NEW! % Repositioned controls for more convenient operation.

The Exclusive KDK 6 in 1 Knob.

- Only memories with data are scanned; blanks are skipped.
- Complete memory back-up with power unplugged. Re-chargeable Ni-Cd with capability of several months back-up of memory.
- Single frequency sub-audible tone generator included as a standard feature.
- Tone unit switch on front panel to prevent "humming" on the wrong channel.
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- Solid-state level meter for both output level and input level monitoring.
- User programmable initial characteristics for band limits, channel step size, etc.
- Odd repeater splits can be handled with the memory in the AxB mode.
- Programmable band-scan limits are stored in protected RAM.
- Modular construction with pluggable interconnecting wiring.
- Touch-Tone® microphone TM-2 is standard with each radio.
- Change channels, skip-scan or step up and down the band from TM-2 microphone.
- Audible beep for end-of-band or last memory location for better "eye's off" operation.

The KDK FM-2033 represents a significant advance in user convenience and simplicity of operation for the radio user. The KDK '33' series of transceivers provides excellent readability in any lighting condition for either the operating frequency or the memory channel number in use. The use of a warm orange background for the LCD displays improves the readability by providing an easy on the eyes contrast improvement.

Simplicity of operation has always been the mark of the KDK design team and the FM-2033 is no exception. From the single knob frequency and memory selection to the automatic recall of the desired repeater offset from memory, the FM-2033 continues to provide relaxed, comfortable mobile operation.

Once the 10 memory frequencies have been selected, a single knob is all that is required for operation on the standard simplex or repeater channels. Using the audible beep as the end of memory marker allows setting to a particular channel without even looking at the radio.

In the scan mode, scanning for a busy memory or pre-programmed band scan keeps you up to date on the happenings in the area. Very busy frequencies can be skipped by using the up key on the TM-2 microphone. If a full 10 memories are not used, the unused ones can be marked for scan skip so that no time is wasted checking them.

The FM-2033 provides a clean 25-watt output signal across 142 - 149.995 MHz to operate in balance with most repeater signals and provide quieting on the simplex operations. M.A.R.S. (NAVY too!) and C.A.P. frequencies are also accommodated.

You want convenience, reliability and easy operation for your mobile station and a tough to beat dollar value. Check out the FM-2033 at your local dealer TODAY or send a QSL for specifications.

Touch Tone is a Registered Trade Mark of American Telephone and Telegraph.

Specifications are nominal and are subject to change. All KDK transceivers meet or exceed FCC regulations regarding spurious emissions.

KDK

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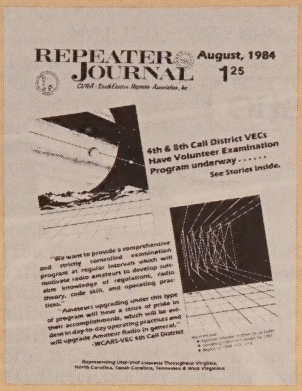
REPEATER JOURNAL
August, 1984
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4th & 8th Call District VECs Have Volunteer Examination Program underway . . . . .
See Stories Inside.

ON OUR COVER

Our cover this issue is devoted to the members of WCARS/VEC and DARA/VEC. These progressive groups have gone forth and gotten the Volunteer Examination program going for the Amateur community. WCARS, select members of the Western Carolina ARS of Asheville, N.C. and DARA composed of members of the Dayton ARA of Dayton Ohio are certified VECs for the 4th and 8th call districts respectively. The Volunteer Examination program is already underway.

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REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

August-Sept.-Oct.
VOLUME 13, NO. 3
ORGANIZED IN 1971
"IN OUR 13th YEAR"

Editorial Comment

VEC, VEC . . . Whose Got the VEC . . .

If you are confused as to just how the new Volunteer Examiner Program will work and who is going to administer examinations, don't feel alone. I'm trying to keep up with things, and I'm not even sure what's going on.

Originally the FCC authorized the Volunteer Examiner Coordinator (VEC) program. It was earlier said that no one organization could be VEC for all call districts, then it was said they could.

The ARRL balked when they found out that they could not collect fees to reimburse for expenses in administering the program. Then groups started applying around the country, and the FCC began certifying them. Meanwhile the FCC was to take up VEC Expense Reimbursement, allowing collection of expenses for exams in mid-July. According to ARRL, when this occurred they would sign papers with the FCC to become the 13 call district VEC. We of course cannot predict what has happened as you read this since my deadline was several weeks ago.

The ARRL promises when they are certified they will begin administering exams by September. In the meantime, they have been signing up what they called "Proposed Volunteer Examiners" (PVE??) who supposedly will be certified when ARRL is certified.

As we write this, a group from the Western Carolina ARS in Asheville, N.C. called WCARS-VEC has been certified and have signed up numerous VE's around the 4th call district. The group went to Atlanta and administered exams in June. They also planned exams at the Asheville hamfest which was held at the end of July. For the 8th Call District (West Virginia included) the Dayton ARA has been certified VEC. The Dayton club at a meeting at Charleston, W.Va. in June certified a number of VE's to give exams in West Virginia. Dayton was the first VEC to give volunteer exams in the continental 48 States. (Alaska was the first). These VE's were scheduled to give exams at the Wheeling, WV hamfest July 22.

So it seems the 4th and 8th call district VEC's and their certified VE's have taken the bull by the horns and gone ahead with exams already.

Now the question arises. If the ARRL was certified as VEC for all call districts as scheduled, who is running things where there were already VEC's appointed. I understand some VEC's had already said they would turn over the reins to ARRL when things were worked out. Other VEC's have said NO! So in those cases will we have TWO VEC's and 2 sets of VE's competing for applicants.

I know the WCARS-VEC group has already spent over $2,000, which I assume came from contributions from someone. Would it be fair for them to turn things over to the ARRL. Is ARRL willing to re-imburse WCARS-VEC for expenses incurred when or if they take over the 4th call District.

I think we got ourselves a rather sticky and embarassing subject. I really don't know how it will turn out, but chances are somebody is going to get upset, and somebody is going to lose some face with the crowd.

Now if you think things are bad, how about this. Fred Maia, W5YI who publishes a newsletter twice monthly nationwide has applied and RECEIVED certification from the FCC as VEC for ALL call districts. Now this makes three for us. Fred said he is certifying applicants in all call districts who apply for VE status who qualify.

Maybe we will have something less confusing to tell you in the November Repeater Journal. We hope to obtain some test sites and dates before deadline for this issue. If we did, they are published elsewhere in the Journal.

And finally, the person who suggested a "Colfax-VEC"— forget it pal! I'm afraid I'd just get things confused!

—Wayne C. Williams, Editor

REPEATER JOURNAL

AUG. – SEP. – OCT. 1984

In This Issue

VEC, VEC ..... Whose Got the VEC – An Editorial 1
WCARS/VEC Named Coordinator for 4th Call District 3
ARRL Expected to sign as National VEC 6
DARA VEC for 8th Call District 6
New Swansboro Repeater Covers Crystal Coast 9
ARRL Roanoke Division LPM – A Report 10
The Lone Amateur (Rides Again!) 13
New 2-Meter Bandplan Being Depated in Texas 15
Repeater Distribution by Frequency 18-19
CVRA-SERA Repeater Index (by city-by state) 21-26
West Virginia Notes 30
A 1976 Repeater Operating Policy 33
Historical 2-Meter FM Contact from West Virginia 34
ARRL Operating Events Calendar 39
Coming Events – Remaining 1984 Hamfests 40
Where To Buy – Advertisers Index 40
Director & Vice-Director Election this Fall 40

About the Repeater Journal . . .

The CVRA-SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRA-Southeastern Repeater Association, Inc., a non-profit coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL, provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations on request. The REPEATER JOURNAL press run is 4,500 copies with circulation membership in excess of 3,900 and is entered as Third Class Mail at the Post Office in Greensboro, N.C. REPEATER JOURNAL copies may also be obtained at most area hamfests for $1.25 per copy. All news and Newsletter exchanges should be mailed to the Editor and Publisher, Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

About Associate Membership

Repeater users and Amateurs are invited to join CVRA-SERA as Associate Members. A membership fee of $4.00 per year will enable members to support the organization and receive the "Repeater Journal". Note: Associate Membership deadlines are on the 15th of the month preceding months of publication – Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Greensboro Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive the next to be published Journal, but instead will receive the forthcoming issue the next quarter. Memberships received at hamfests will receive a current "Repeater Journal" as long as supplies are available and the next regularly scheduled issue through the mail.

About Full Repeater Membership . . .

Officers and Directors are elected from members of CVRA-SERA Full Membership. Any repeater owner or club may join our organization as a Full Member by filling out an application and submitting it with $8.00 annual membership fee. Two representatives are named for each membership and each receive the "Repeater Journal." The Full Member repeater is appropriately recognized as a full member repeater in our repeater index in the Journal. Full Memberships all expire on December 31 each calendar year.

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AND THEIR ASSISTANTS
LISTED BY STATE ON
BACK COVER

About CVRA-SERA . . .

CVRA-Southeastern Repeater Association, Inc. is one of the largest Repeater Organizations in the United States. In our 13th year of operation, the Association is positive proof that coordination efforts have paid off in the Districts it serves. Two of our Districts are 11th and 13th in the Nation in numbers of Amateur repeaters. We shall strive to continue to keep our area interference free with cooperation and coordination efforts of our Amateur repeater owners and CVRA-SERA as in the past 12 years.

WCARS/VEC Named Coordinator for 4th District

–compiled by Ed Erwin, WW40

Under the direction of Phil Haga, KA4CHC, the Western Carolina Amateur Radio Society persued the development of a Volunteer Examiner Coordinator for Region Four.

On May 11, 1984, the agreement was signed with the Federal Communications Commission and the WCARS/VEC was a reality.

The Board of Directors of WCARS/VEC is Ed Erwin, WW40; Halley Shaver, NC4R; Lew Trexler, WA4UTY; Bert Griffin, W2MJA; Norman Harrill, N4NH; and Arvin Fowler, K4RP.

The WCARS/VEC functions are:

(1) Direct contact with the Federal Communications Commission. (2) Recruit volunteer examiners (3) Issue accreditation documents (4) Coordinate examination sessions (5) Provide Application forms (6) Provide written exam materials (7) Provide telegrahy exam materials, when requested by VEs. (8) Provide Certificates of Successful Completion of examinations. (9) Establish exam session identifiers. (10) Collect test materials (11) Screen applications and resolve defects (12) Compile exam session test reports (13) Forward applications to the FCC (14) Maintain records of all exams (15) Provide evaluation of questions to FCC

WCARS/VEC is actively reviewing applications from Advanced and Extra Class amateurs desiring approval as volunteer examiners (VEs). The primary interest is in EXTRA Class amateurs since the Advanced amateur can administer only the Technician class exam. Advanced class teams are useful during all exams for traffic control, monitoring and forms review.

THREE VEs are required in each exam session and their signature must be on each application for an upgraded license. For this reason, FOUR or more VEs are normally established in the various areas. These VEs must coordinate their efforts and the VE group must decide on one of the group to be the direct contact person with WCARS/VEC.

Further duties of the VE groups are:

–coordination of exam dates with the VEC, 30 days in advance of examination sessions.

–administration and grading of all exams, completing the required paperwork for the exam sessions, forwarding the exam results to the WCARS/VEC within 10 days after the exam, and maintaining records of the exam session administered.

–VEs must be active with WCARS/VEC in test design and evaluation.

Persons or groups interested in VE status should write to WCARS/VEC, to obtain VE application materials. When the VEs are approved, Certificates of Approval will be issued along with an instructional package.

VEs are also expected to attend seminars conducted by the WCARS/VEC prior to giving exams. The Seminar is necessary to provide necessary training for the new forms and requirements established by the FCC. WCARS/VEC will announce seminar sessions to the VEs.

The primary objective of WCARS/VEC is to provide a comprehensive and strictly controlled examination program at regular intervals which will motivate radio amateurs to develop suitable knowledge of regulations, radio theory, code skill, and operating practices.

Amateurs upgrading under this type of program will have a sense of pride in their accomplishments which will be evident in day-to-day operating practices and will upgrade Amateur Radio in general.

Current VEs By State As Appointed by WCARS/VEC

The following is a list of Volunteer Examiners who have been certified by WCARS/VEC to administer amateur examinations. This list is complete as of July 10. More are being added daily.

NORTH CAROLINA

Garland Lance, NC4N, Asheville
George Thatcher, WB4N, Asheville
Nick Von De Sand, KQ4G, Asheville
Clyde T. Beeler, W4FUI, Asheville

Marguerite F. Debnam, NI4A, Greensboro
Walter C. Thompson, WV4K, Greensboro
Gaynell Collins, NE4T, Greensboro
Carrol W. Collins, NG4Y, Greensboro

Fred A. Clemmer, KA4GOC, Kannapolis
James S. Austin, WD4KCM, Kannapolis
Earl D. Fortner, K4KAY, Kannapolis
Marvin G. Hull, KB4SS, Kannapolis

William O.J. Conrad, K4BE, Winston-Salem
Derek S. Brown WF4I, Winston-Salem
Howell B. Rice, N4NH, Winston-Salem
John P. Burns, WT4V, Winston-Salem

John M. Johnson, WM4P, Raleigh
Matthew Fisher, WW4Z, Raleigh
Joseph W. Love, WM4F, Raleigh

Mary E. Weddle, WC4T, Charlotte
Clyde L. Weddle, KF4WY, Charlotte

Jeff W. Stark, NE4Q, Morganton
Charlie M. Tate, KA4HKI, Morganton

Hersey R. Shumate, K4QFQ, Sparta

Charles J. Wysong, K4JEQ, Hickory
J. Philip Sweet, WB4NOM, Hickory
J. Hugh Strong, NO4N, Hickory
Daniel W. Wingate, WT4Z, Hickory

TENNESSEE

Mark. R. Nelson, AJ2X, Knoxville
George B. Nichols, NY4A, Knoxville
Paul T. Baird, KY4A, Knoxville
Raymond J. Coker, III, KD4C, Knoxville
Wesley L. Cosner, NX4C, Knoxville
George R. Bell, WB4GHZ, Knoxville
George W. Fellows, Jr., WN4D, Knoxville
Richard L. Slover, ND4F, Knoxville
Hubert E. Morgan, NB4M, Knoxville
Issac C. Petree, NI4O, Knoxville
Peter R. James, WM4U, Knoxville
Raymond K. Adams, N4BAQ, Knoxville

VIRGINIA

James N. Thurston W4PPB Mouth of Wilson
Fred Harriman, W4NMU, Mouth of Wilson
Lewis T. Fitch, W4VRV, Mouth of Wilson

SOUTH CAROLINA

Douglas Sanders, K4QO, Charleston
Herbert E. Owensby, WB4ZBZ, Charleston
Thomas L. Lufkin, WA4DAX, Charleston
Vernon Wells, WC4C, Charleston

GEORGIA

Robert Langford, WW4K, Atlanta
Elliott S. Harris, KE7S, Atlanta

FLORIDA

Edward J. Ehringer, WB4NFK, Seminole

The WCARS/VEC is looking for qualified groups of Advanced and Extra Class Amateurs who wish to be certified in the fourth call district as Volunteer Examiners. Qualified persons interested should write: WCARS/VEC P.O. BOX 16189, ASHEVILLE, N.C. 28816.

First WCARS/VEC Exams Given at Atlanta, Ga.

WCARS/VEC administered amateur exams at the Atlanta Hamfestival on June 16th. The group agreed to sponsor the exams with a short notice of need. All classes of exams were administered and 89 Certificates of Successful Completion of Examination were issued.

Approximately 400 exams were given. The failure rate was high due in part to this being a "walk-in" type session and many applicants were taking a "wild-shot" at upgrading without preparation.

One problem noted by the WCARS/VEC was the amount of this the applicants had to wait for the test results. This happened because of the large number of applicants and with the short notice situation. WCARS/VEC and the Atlanta VEs did not have ample opportunity to work out minor details prior to the examination session.

It was interesting to note that those persons who DID successfully upgrade in Atlanta, had obviously prepared themselves and passed the code and written exams with HIGH scores.

The Atlanta VEs and other Amateurs assisting in the exam session are to be commended for their fine efforts.

Novice Program's the Same!

Persons interested in becoming a Radio Amateur should contact a General, Advanced, or Extra class licensee in his local area to be examined for a

Continued On Page 6

THE TWENTY-SEVENTH ANNUAL

SHELBY HAMFEST

W4NYR
SARC CLUB
SHELBY AMATEUR RADIO CLUB

"The Grand-Daddy Of Them All"

- REGISTRATION:
  $4.00 At The Gate
  $3.00 for Pre-Registration
  Children Under 12–Free!
- Free Parking space across Road from Main Entrance on new Paved, Lighted Lot.
- Handicapped & Tailgaters use Gate near Intersection of Hwy. 74 Business and Hwy. 180.
- New Paved Fairgrounds
- Food service on the grounds... Shelby's famous Barbecue and a variety of other food and snacks . . . with most of Shelby's fine eating places within one mile.
- Trailer Facilities, 40 sites with full hook-ups, water, sewer and electricity. Ample power for your Air-Conditioners. Unlimited field space for self-contained trailers and tent campers. No reservations.
- Bingo and Arts & Crafts, Shopping Mall within 1 mile for the Ladies.
- Clean, Sanitary Rest Rooms.
- 15 ACRES OF FLEA MARKET. Plenty space for all! TAILGATERS MUST REGISTER. Some undercover space available with rental of table. No overnight security.
- New equipment Dealers as well as used dealers may have inside space with power available and overnight security at a nominal charge.
- Additional inside space in main building (3rd row) again available this year.
- Easy to locate. Fairgrounds are on Business U.S. 74 and N.C. 180 on the East side of Shelby, N.C.
- PLEASE REMEMBER THIS, "NO member of the Shelby Amateur Radio Club or any member of their family is eligible to win a prize.
- TALK IN: 146.28-88
- Sunday School on Hamfest Grounds Sunday Morning. Time will be announced.

FOR FURTHER INFORMATION:
Call or Write:
Robert Hamrick, WA4QDU
Box 86
Boiling Springs, N.C. 28017
Phone (704) 434-6242

FOR DEALER REGISTRATION:
Call or Write:
David Rose, WD4DJA
1516 Knox Drive
Shelby, N.C. 28150
Phone (704) 487-5654 (Wknds Only)

SEPTEMBER 1st and 2nd

TO BE HELD AT SHELBY, N.C.
CLEVELAND COUNTY FAIRGROUNDS
LAST YEARS ATTENDANCE OVER 10,000
EXPECTING OVER 12,000 THIS YEAR

On US 74 Business on the east side of Shelby

Main Exhibition to Have Three Main Dealer Rows Open

FCC EXAMS Scheduled September 1 (Pre-Registration Required). See Page 6!

SATURDAY PRIZE: KENWOOD TM-201A 2-Meter Mobile Transceiver. Drawing at 3:00 p.m.

SUNDAY 1st PRIZE: KENWOOD TS-830S HF Transceiver Drawing Begins at 3:00 p.m.

SUNDAY 2nd PRIZE: KENWOOD TS-530SP Low Band HF Transceiver

SUNDAY 3rd PRIZE: KENWOOD TR-7950 2-Meter Transceiver

ADVANCE REG. PRIZE: SANTEC ST-142 2-Meter Handheld (Drawing Sat. 1 p.m.)

PLUS many, many more prizes.

TAILGATERS AND DEALERS – Please cooperate with our Parking Committee. They will be working hard to make use of all Available space. Thank You In Advance!

YOU DO NOT HAVE TO BE PRESENT TO WIN ANY MAIN PRIZES!

AREA MOTELS/HOTELS

Some of the motels in the area are listed below. They recommend that you call well in advance as their week-end business is good and reservations may be a problem.

SHELBY - Holiday Inn, Governors Inn, Hagers.

KINGS MOUNTAIN - Holiday Inn

GASTONIA - Mid-town, Howard Johnson, Holiday Inn, Scottish Inn

GAFFNEY - Holiday Inn

FOREST CITY - Gardo's, Goode's, Big Horn

LINCOLNTON - Town & Country

HICKORY - Howard Johnson, Holiday Inn, Mull's, Ramada Inn.

Pre-Registration Tickets Received after August 15 – Will be held at Gate!

W4NYR

The Shelby Hamfest

SARC CLUB

SHELBY AMATEUR RADIO CLUB

ARRL

Pre-Registration Form

I would like to Pre-Register for the SHELBY HAMFEST.
Enclosed is my check for:

_____Hamfest Tickets @ $3.00 each..... $_____

Total..... $_____

UNDER 12 FREE

NAME_____CALL_____

ADDRESS_____

CITY _____STATE_____ZIP _____

RJ-8

WCARS/VEC Exams

From Page 3

NOVICE license. WCARS/VEC (as are all other VECs) are active only in providing exams to CURRENTLY licensed Amateurs for Technician, General, Advanced and Extra class licenses.

ARRL Expected To Sign As National VEC in Late July

–Excerps from "The ARRL Letter"

The ARRL expected the FCC to adopt Volunteer Examination Cost Recoupment rules in mid-July. As soon as such rules were adopted, ARRL President Price and General Manager Sumner were to sign an agreement with FCC for ARRL to become a Volunteer Examination Coordinator (VEC) in all 13 districts. If there are no significant delays, ARRL will be coordinating exams beginning on Labor-Day weekend, Sept. 1.

Initially, ARRL will coordinate exams for hamfests and conventions only and begin handling all other sessions 60 days later (Nov. 1). This will permit ARRL exam sessions to meet the pent-up demand effectively while allowing time for dealing with unforeseen problems.

ARRL has completed a training manual, which will be ARRL's means of training a large number of Volunteer Examiners (VEs) in procedures and requirements for serving as VEs. Included in the package will be an open-book test, which must be passed. Only after successfully completing the test and submitting all paper work will a Potential Volunteer Examiner (PVE) be accredited as a VE. The manual was to be distributed to PVEs in July.

ARRL reports over 6,000 PVEs have registered through the early part of June. If you are interested in participating in this exciting new phase of self-regulation in Amateur Radio, contact the Club and Training Department at ARRL HQ, they'll welcome your help.

Early Examinations Sked More to Be Added Later

WCARS/VEC announces the following examinations schedules in the fourth call area. These are early confirmations and more are sure to be added as more VEs become certified and begin scheduling exams in their particular locations.

In coming issues, the Repeater Journal will make every attempt to publish dates and times for EVERY Amateur examination schedule of any size that we can find out about.

Every examination session will require: (1) Pre-registration with a form 610 and a COPY of applicants current license (2) A deadline will be required to allow time for setting up for applicants (3) Pre-registration usually will be sent to the sponsoring group at the examination city or location.

It is expected there will be few if any "walk-in" type examinations at this point in time.

Exam schedule

Oak Hill Academy, Va. Aug. 10

Pre-registration deadline was August 1 for exams scheduled at the Oak Hill Academy located at Mouth of Wilson, Va.

Shelby, N.C., Sept. 1

Preregistration deadline is August 30th. Mail completed Form 610, with copy of license attached to: Shelby Amateur Radio Club, P.O. Box 2206, Shelby, N.C. 28105. Make a $4.00 check payable to WCARS/VEC and enclose with application. Exams will be given from 8 a.m. to noon at Cleveland Tech. College, across from hamfest site, Saturday, September 1. You must have registered to enter.

Chattanooga, Tn. Oct. 27-28

Pre-registration deadline Oct. 15. Mail 610 form and copy of license to: Chattanooga Hamfest, P.O. Box 3377, Chattanooga, Tn. 37404.

Concord, N.C. Nov. 4

Pre-registration deadline is Sept. 21. Send post card with name, address, callsign, and class of exam desired to: FCC Exams, 5403 Crofton Ave. Kannapolis, N.C. 28081. Bring copy of current license with you.

West Virginia VE's Accredited by DARA

–Ctsy TSRAC–BNT

The Dayton ARA, VEC for the 8th call district held seminars in June at the West Virginia University Campus for the purpose of certifiying Volunteer Examiners in the West Virginia area.

Of the 65 Amateurs who applied, 60 were accredited as VEs and will be able to administer Amateur exams in the future.

Participants came away from the seminar impressed with the seriousness, accuracy, security and the enormity of the paperwork involved with the turning over of the examination process to thye Amateur Radio Service.

Members of TSRAC (Triple States ARC) who were accredited had their first opportunity to give examinations at the Wheeling Hamfest held July 22.

W5YI Report Named National VEC by FCC

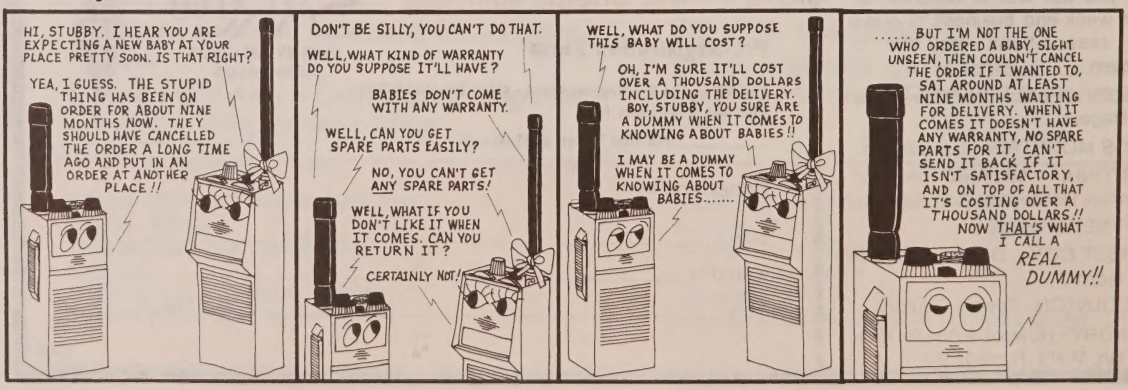
–Excerps from story by Fred Maia, W5YI

As most of you know, I submitted a proposal to the FCC agreeing to coorindate amateur radio operator examinations nationally using testing materials obtained by Volunteer Examiners from the commerical marketplace.

These testing materials could be purchased from various neighborhood bookstores, at hamfests or via mail order

Continued On Page 37

Stubby *by Fred Hurteau, WD4SKH*


HI, STUBBY. I HEAR YOU ARE EXPECTING A NEW BABY AT YOUR PLACE PRETTY SOON. IS THAT RIGHT?
YEA, I GUESS. THE STUPID THING HAS BEEN ON ORDER FOR ABOUT NINE MONTHS NOW. THEY SHOULD HAVE CANCELLED THE ORDER A LONG TIME AGO AND PUT IN AN ORDER AT ANOTHER PLACE !!
DON'T BE SILLY, YOU CAN'T DO THAT.
WELL, WHAT KIND OF WARRANTY DO YOU SUPPOSE IT'LL HAVE ?
BABIES DON'T COME WITH ANY WARRANTY.
WELL, CAN YOU GET SPARE PARTS EASILY?
NO, YOU CAN'T GET ANY SPARE PARTS!
WELL, WHAT IF YOU DON'T LIKE IT WHEN IT COMES. CAN YOU RETURN IT ?
CERTAINLY NOT!
WELL, WHAT DO YOU SUPPOSE THIS BABY WILL COST ?
OH, I'M SURE IT'LL COST OVER A THOUSAND DOLLARS INCLUDING THE DELIVERY. BOY, STUBBY, YOU SURE ARE A DUMMY WHEN IT COMES TO KNOWING ABOUT BABIES !!
I MAY BE A DUMMY WHEN IT COMES TO KNOWING ABOUT BABIES.....
..... BUT I'M NOT THE ONE WHO ORDERED A BABY, SIGHT UNSEEN, THEN COULDN'T CANCEL THE ORDER IF I WANTED TO, SAT AROUND AT LEAST NINE MONTHS WAITING FOR DELIVERY. WHEN IT COMES IT DOESN'T HAVE ANY WARRANTY, NO SPARE PARTS FOR IT, CAN'T SEND IT BACK IF IT ISN'T SATISFACTORY, AND ON TOP OF ALL THAT IT'S COSTING OVER A THOUSAND DOLLARS !! NOW THAT'S WHAT I CALL A REAL DUMMY!!

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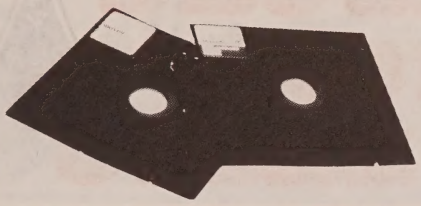

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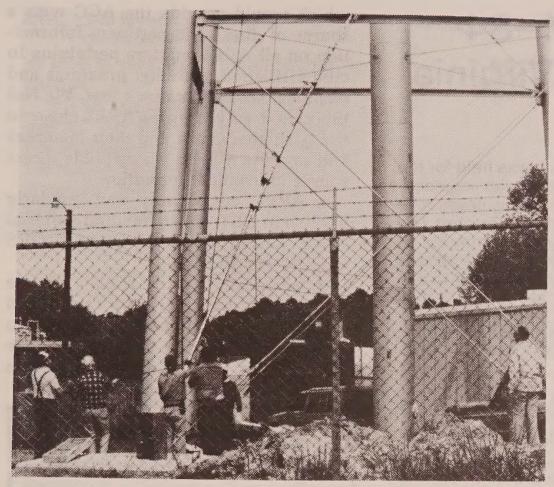
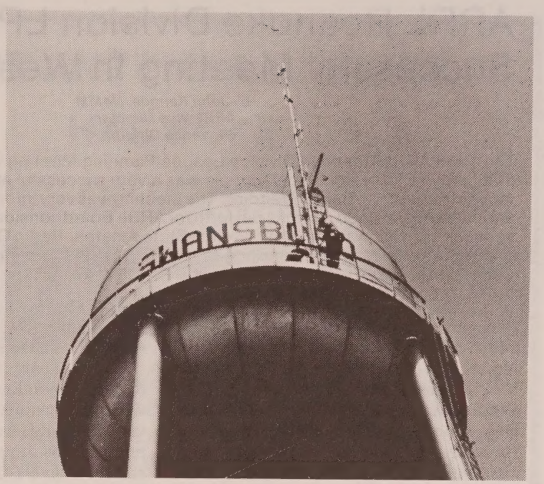


GROUND CREW busy at work making preparations to raise the new antenna for the 16-76 Swansboro repeater. The group, W4YMI, W4PVI, KD4JU, W2THH and K4JFN kept the antenna crew busy as they manned the pulleys and ropes.



SUN REFLECTS off the side of the Swansboro water tank, support for the Swansboro 16-76 repeater. The 4-pole array antenna is about 150-feet off the ground, allowing the repeater to give good 25-mile mobile coverage of Swansboro.

New Swansboro Repeater Covers the Crystal Coast

–by Dave Taylor, KO4S

Equipment: Motorola MICOR TX and RX, Sinclair Radio Labs Duplexer Antenna; 4 dipole co-phased array (home-brewed) Feedline-½" hard-line (Alumnifoam), Control circuit-Microcomputer Repeater Controller

Site: Top of watertank in Swansboro, NC, approximately 150 ft. above ground.

Coverage: Approximately 25 mile radius for typical mobile installation; base station range, of course, depending on antenna height of base station.

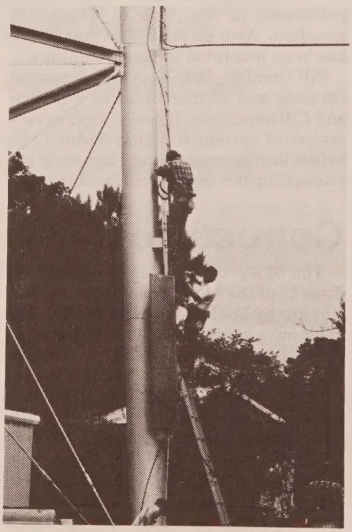
Two-meter coverage of the Crystal Coast has for years been provided by the Grifton repeater, but spots have to be carefully selected for mobile coverage. Other repeaters recently have added to the area, but again with spotty results. With a growing number of hams becoming permanent, residents in the Swansboro area, and an ever increasing number of amateurs regularly visiting our beautiful coast, the need for a local coverage machine became apparent.

The first problem to be dealt with was the selection of a site. Local officials were approached with the idea of installing a repeater on the town's water tank, and amateur radio was demonstrated to them. They were suitably impressed and pleased with the coverage that our handhelds could give through a repeater, with our emergency communications abilities and our public service capabilities. The town police chief and fire chief backed us 100% in an appeal to the town board for the site, and we were given the official go-ahead in the fall.

The next problem—equipment! Fortunately, we have managed to go first class all the way in this area, and intend to continue doing so. A Motorola MICOR was donated to the cause by KD4JU, who also helped modify the mobile rig for duplex operation. W4ULD got to work on an antenna for us, a co-phased four-dipole array. WD4OGS, WD4LVN, and KO4S provided a commercial Sinclair Radio Labs Duplexer. WA4UMH provided half-inch Alumnifoam hardline with connectors. Donations from several hams provided funds to cover the purchase of various components, circuit boards and hardware necessary to build up interface and control circuits. Experimental operation began in the fall at KO4S's station, and full time operation at the temporary site in mid-January.

Next problem—antenna! The prevailing winds in our area are right off the ocean—great for sailing but not for installing antennas on water-tanks. The first attempt was cancelled due to wind, second attempt due to mechanical difficulties, third attempt on Easter weekend was successful! N4HAJ and KO4S were tower monkeys; KD4JU, W4YMI, W4PVI, WD4JYR, K4JFN, W2THH, WD4OGS, and WD4LVN were ground crew. Almost forgot to mention Murphy, who of course, was lurking in the shadows. His contribution was unacceptable high SWR on the antenna system! WO4A came to our rescue with a time domain reflectometer, our defect was located and repaired, and finally KO4S/R was on the air from Swansboro, NC!

Coverage appears to be omnidirectional, as hoped for, with 20-25 mile radius for mobiles. Hand-helds in the Swansboro-Cape Carteret area work very nicely, and more and more fishing reports are coming in on .76! In the works are auto-patch, link-up, voice identifier. Remember to dial up 146.16-.76 on your next trip to the coast and be welcomed to the Crystal Coast by KO4S/R!



HARDLINE for the Swansboro repeater antenna is being tied down by KO4S and N4HAJ. The 16-76 machine provides good 2-meter mobile coverage along the Crystal Coast of North Carolina.

Round Table Radio Glossary

LID. This universally appreciated ham operator provides a fascinating demonstration of operating expertise. Lids can easily be found on a DX station's frequency, within one kilohertz of a net, discussing the weather during Sweepstakes for fixing intermittent connections with high voltage.

ARRL Roanoke Division LPM –84– Successful Meeting In West Virginia

–by John Kanode, N4MM
ARRL Vice Director
Roanoke Division

The 1984 ARRL Roanoke Division League Planning Meeting which was held for the first time in Charleston, West Virginia was a very successful meeting with representatives from all four states attending. The meeting was very informative and productive and with several good motions put forth for ARRL Board consideration in October. The sponsor this year was the West Virginia State Amateur Radio Council and they did an excellent job in making the arrangements to host the meeting. Many thanks are in order to the Council, Karl Thompson, K8KT; Al Hix, W8AH; Dan Ringer, K8WV and to others for a job well done.

The meeting started at noon on Saturday with introductions and opening remarks by John Kanode, N4MM, ARRL Vice Director; Karl Thompson, K8KT, Section Manager for West Virginia and Dan Ringer, K8WV, ARRL Assistant Director. A moment of silence was observed for Vic Clark, W4KFC, Past President of ARRL.

Due to an illness, Gay Milius, W4UG, ARRL Roanoke Division Director could not attend the meeting. Al Hix, W8AH, ARRL Assistant Director gave us a brief history and facts about Charleston, West Virginia. Jim Clary, WB9IHH from ARRL Headquarters was present and he gave a fine report on current amateur activities that involve ARRL and repeaters. This was followed by questions from the floor.

The four ARRL Section Managers and/or their representatives gave a report on amateur activities within their sections. The highlight of this section of the program, presented by Jimmy Walker, WD4HLZ was the severe storms and tornadoes that occured in North and South Carolina and how the Amateurs performed in this type of emergency situation. Also an ARRL two meter net has been instituted in North Carolina.

Bill Grenfell, W4GF, ARRL Assistant Director and former Chief of Amateur and Citizens Rules Branch, FCC gave a review of current Amateur Radio items before the Commission and how they are proceeding through the rule making process. Cable TV interference problems were also discussed.

The next part of the meeting was given by the Section Emergency Coordinators. George Puzzuole, K8QEW gave an overview of the different levels of emergency prepardness involving National, State and local levels of government. W. Reed Whitten, AB4W gave us more information in regards to the storm/tornado disaster in North and South Carolina and John Parker, WB4UHC discussed nuclear alert drills and the flooding in Accomack, Va.

The Section Traffic Managers gave their reports on what was happening within their sections in regards to the traffic systems. The increasing use of two meter repeaters for traffic handling was noted and discussed.

The Saturday portion of the meeting was concluded with an attitude adjustment and fellowship party, which was held in the Ramada Inn.

Sunday morning activities started with discussion on the VEC situation in the eight call area and Dan Ringer, K8WV gave the information on how amateurs in West Virginia can become VE's under the Dayton Amateur Radio Association VEC program. This was followed by Affiliated Club Coordinator reports which highlighted some of the club activities in the Division. Special Service Clubs were discussed and the new Special Service Club Handbook was shown for the first time in the Division.

John Kanode, N4MM, ARRL Board DX Advisory Committee Liaison gave a report on the latest happenings involving the DXAC and the DXCC Award Programs. New endorsable DXCC awards were discussed along with other DXCC matters.

The highlight and most important part of the LPM was conducted by Vice Director, John Kanode, N4MM, which is the open forum and resolution session. This is where resolutions are presented from the floor, discussed and voted upon. This year ten resolutions were presented and nine were approved for possible action at the next ARRL Board Meeting. Some of the resolutions were:

★ Have the ARRL publish an Affiliated Club Coordinator Manual, similar to the Special Service Club Manual, which would provide the ACC with a source of direct and pertinent information on all ARRL matters pertaining to club affiliation, training, programs and technical areas, to name a few. We feel this would truly bring the ARRL closer to the Affiliated Clubs and their members and provide a readily accessible direct source of league information.

★ ARRL periodically and regularly publish in QST and in handout material "THE CONSIDERATE OPERATORS GUIDE" for all bands.

★ Whenever ARRL officials change at Headquarters, all certificates and other official documents be changed to reflect these changes where ever the officials' names are used. This to be done

Continued on Page 11

Correction!

The Story "A Club On the Move" on Page 17 of the May Repeater Journal had a byline by Lee McDaniel, WB4QOJ. The story was actually written by David R. Jones, Jr., N4JED of Salem, Va. and submitted to the Journal by McDaniel.

We apologize for this error David. We certainly want credit to be given to appropriate people who take time to send us good stories like the Southwestern Wireless Association story.

Incidently, David also designed the club logo printed along with the story. He also was responsible for drawing up a two-meter repeater map of the state of Virginia which has been printed and distributed throughout the state. (editors)

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Continued from Page 10

as soon as reasonably possible after the change.

★ The Board of Directors arrive at a method for clearly distinguishing the uncoordinated repeaters appearing in the league repeater director along with a statement that these repeaters were not established and are not operating within the ARRL band plans. Also that the league urge only other publishers of such directories to do the same but that no sanctions will be taken if they do not feel so inclined to follow suit.

★ The ARRL Board of Directors cause and be totally responsible to have all of the advisory committee members be responsible to the desires and best interests of the various amateur activities. If they are not doing their job properly, make appropriate changes to correct the matter.

★ The Roanoke Division Director submit a recommendation to the ARRL Board of Directors that monies be budgeted to permit meetings of the Advisory committees. Such meetings to be called by the advisory committee chairman in coordination with the league liaison member based on the needs of the committee.

★ That the Division Director publish periodically the list of division field appointee's including members of the advisory committees.

★ A publication be published by December 1984 for State and local emergency management directors who have decided to include Amateur Radio in their communications plans. The publication shall contain information and suggestions which will help them understand the capabilities of Amateur Radio, how to utilize it in emergency communications and the value of incorporating it in their exercises and emergency operations.

★ That the ARRL tests for equipment reports include low voltage tests when evaluating "12 Volt" equipment, ie, test at 13.6VDC and at reduced voltages to the point where operation is not practical. This needs to be done to determine if equipment will perform during emergency operation on deep discharge or automobile batteries.

If anyone has any questions or wants more information on the activities at LPM–84–, feel free to call or write to me. My address and phone number are on page eight of each QST.

The mood at the LPM was very positive and it was encouraging to see the interest in the future of Amateur Radio and the ARRL. I want to thank Bruce Graham, WB8ZLY for donating his time and equipment to take photos of the group. Also I want to thank Phil and Alice Wicker for attending and participating. I hope to see all of you at the LPM–85–.

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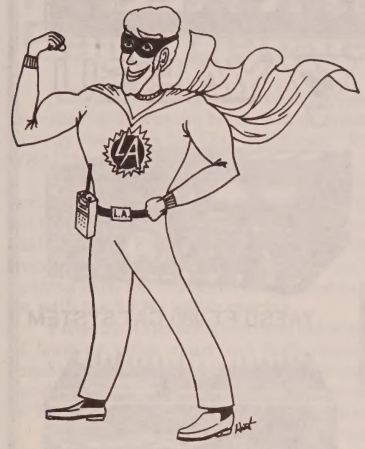


Do you sometimes feel you are the only Ham in the club who ever DOES anything? Are you the one always called on to take care of things like fixing the repeater, or installing the club's beam, or teaching the novice class, or anything else that gets done? Well, I know how you feel. How do I know? 'Cause I'm the Lone Amateur. That's right!

"From out of a cloud of smoking solder resin, with a hearty CQ, CQ, comes the Lone Amateur. Faster than a switching diode, more powerful than a California Kilowatt, able to untangle a coil of kinked antenna wire with a single hand." Yep, that's me. Oh, I see you are a bit skeptical. You don't believe me. Well, that's your problem. But if you will just look around you'll find me. You always do. When something needs to be done I can count on vou to find me and stick me with doing it.

Oh, I guess I don't really mind. I suppose if I really minded I'd just say "NO", and then where would you be? But that's what I'm here for. It's just that I get so tired of others getting all the credit. And more than that I get tired of everyone complaining about why wasn't it done sooner, or better, or cheaper, or some other way which would have suited them best. When I asked them for help they didn't have the time. When I asked them for their opinion they didn't have one. When I asked them for suggestions they changed the subject. So where does that leave me? Alone. Alone to find the information in the handbook, or write the letter for instructions, or a manual, or a catalogue. It leaves me up the tower with no ground crew. It leaves me with more novice students than I can handle. It leaves me aggravated, tired, going in ten directions at one time, with too many irons in the fire, trying to make everyone happy and doing only the opposite. It leaves me with all the blame and none of the credit.

So what am I complaining about? I'm the one who says yes instead of no. I'm the one who lets all this work and worry get dumped on him. So why should I complain? You see, I'm the one who gets the satisfaction of seeing the repeater working well. I have the satisfaction of helping someone get their novice ticket. I'm the one who is learning about all kinds of things by doing them, researching them in the handbook and poking around the circuit board to try to figure out the problem. I'm the one who gets to better himself and amateur radio by doing all these things. Yes, I'm the one who is benefiting the most. NOT YOU. I really feel sorry for you poor slobs who are too lazy to pitch in and help, too sorry to form an opinion, too dumb to see the benefits and pleasures.

So the next time you see me, the next time you call me to come and do it, think about it first. Just think what you're missing. You won't get the glory, you won't get the fame, you won't even get the credit. All you get is the work. But if you really want to help yourself, and help amateur radio, (and help me) maybe, just maybe you could do this one yourself. Just this one time mind you, for if you started taking over then where would I be? I'd be where you used to be. And I don't think I'd like myself very much!

–The Lone Amateurs

Many Comments On Tornado Coverage in May Journal

The Repeater Journal staff wishes to thank the many people who took time to write nice comments about our May issue Tornado coverage. Many sent clippings from newspapers where they received local media coverage.

Again, we wish to thank the dozens who contributed to the gathering of the stories and pictures. The May issue which had extra copies printed has been sent to many areas nationwide where requests have come in.

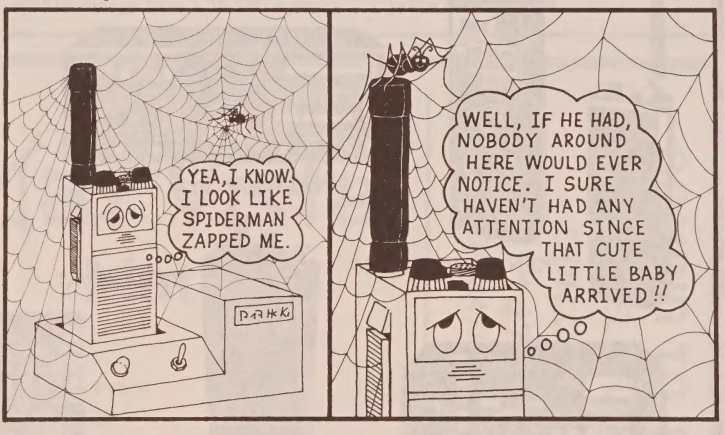
Are you a good writer?

The Repeater Journal can always use good Amateur related feature stories. Send your effort to the Journal editor. We like pictures too!

Round Table Radio Glossary

KILOWATT. A power level used by ham operators to control interference.

Stubby *by Fred Hurteau, WD4SKH*


YEA, I KNOW. I LOOK LIKE SPIDERMAN ZAPPED ME.
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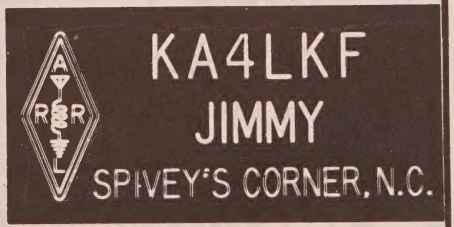

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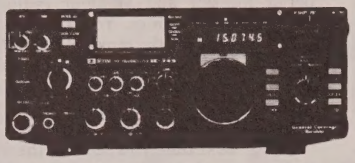

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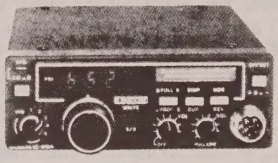

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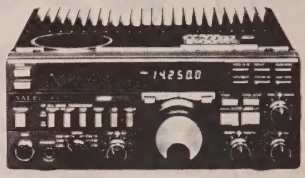

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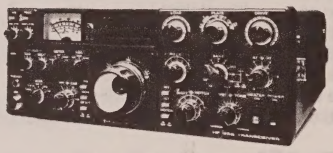

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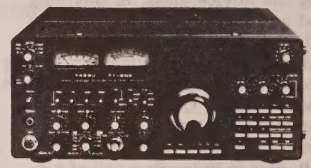

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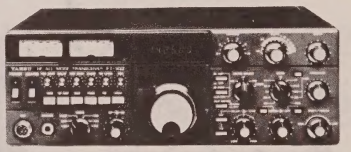

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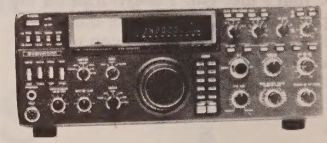

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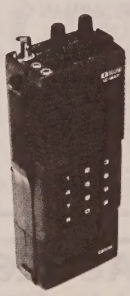

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New Two-Meter Band Plan Being Debated in Texas

(Editor's Note:) There has been for years a so-called "Washington Band Plan" for two-meters. It was the brainchild of Washington and Oregon groups and promoted heavily for years by Clay Frienwald, K7CR of Tacoma, Washington, an ARRL VRAC Member.

The basic band plan called for 20 kHz spacing between repeater channels, instead of the Nationally accepted 15 kHz spacing. Frienwald said this provided MORE repeater channels for use on 2-meters. Simple arithmetic proved contrary to that fact. BUT Frienwald has proven his theory now as areas fill up with repeaters on every frequency. Even though there are less actual pairs available on the 20 kHz spacing between channels (as opposed to 15 kHz spacing) more repeaters can be put on with the 5 kHz wider spacing.

Fifteen kHz spacing just does not work too well for two repeaters unless they are at least 50 miles apart and both machines are state-of-the-art. 20 kHz spaced machines work well as close as 20 miles apart. In this light, Mr. Frienwald has a very good argument. The plan has been most successful in Washington, Oregon and parts of Western Canada for years. A couple of other states have picked up the plan.

Now the Texas VHF-FM Society, coordinators in the State of Texas are debating on whether or not to use this plan.

Although it will be too late to correspond to Joe Jarrett prior to the meeting, here is a press release sent out by the Texas VHF-FM Society concerning the 20 kHz band plan. These boys out West just may have something. The main problem would be changeover. How do you get about 85% of the repeaters to change frequencies to correspond to a new band plan? It's kind of a shame this wasn't realized by everyone and originated in the beginning by ARRL and other Repeater Councils in the early 1970's.

The Texas VHF-FM society has issued a call for interested parties to comment either in person or in writing on a proposal to change from a 15 kHz spacing band plan to a 20 kHz band plan between 146 and 148 mHz.

A forum for the presentation of these papers and comments will be held at the summer meeting of the Texas VHF-FM Society in Austin, Texas on August 11th, 1984. Substantial time will be alloted for both presentation and debate of the issue. This forum will be chaired by Joe Jarrett, K5FOG, past president of the Texas VHF-FM Society and past 5th call district member of the ARRL's VHF Repeater Advisory Committee (VRAC).

Papers must be submitted at least 30 days in advance of the meeting. Papers read at the forum will be those judged to best represent the various sides of the issue and, if the author is unable to be present, the paper will be read by a competent speaker. All papers submitted will be available for review by forum attendees.

Speakers who wish to present at the forum without written paper must submit an outline of their talk at least 15 days in advance of the meeting. If more speakers apply than time permits for presentations, one or more representative speakers will be picked from each of the various sides of the issue. Speakers are expected to remain for the debate.

All correspondence should be addressed to Joe Jarrett, 8501 Spring Valley Dr., Austin, Texas 78736.

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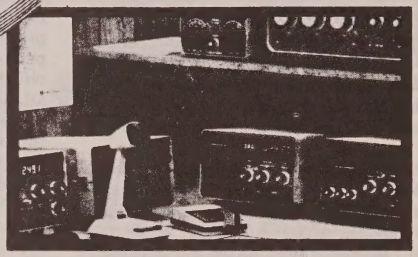

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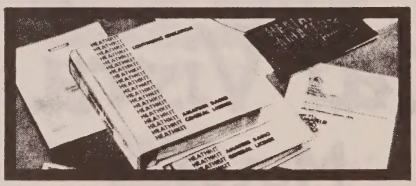

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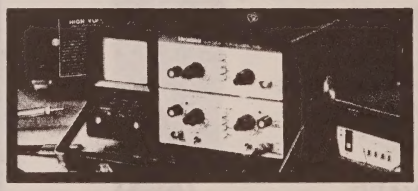

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How Loud Am I?

–by Al Murray K9ZMA (The Backwave)

Each one of us has talked with the mobile operator who has loud background noise almost covering his/her voice, or each time he talks, the audio seems distorted or clipped. Yet, when you talk direct with the operator, the audio is very good, and the noise does not seem quite as loud. Must be the darn repeater! Not necessarily.

Many operators adjust their rigs in simplex operation. Since most receivers in mobile use wideband front ends and IFs with a modulation acceptance of 15 kHz or greater, the heavier the transmitter is modulated, the better it sounds.

So far all of this is just fine. When the mobile operator enters the local repeater — which more likely than not has a narrow band receiver of not more than 7.5 kHz — the trouble begins.

The mobile modulates the carrier on Peaks outside Passband of the receiver resulting in distortion. If noise is present, it may be modulating the carrier to almost 7.5 kHz, and when the voice is added, the receiver clips the audio off so that all the receiving operator hears is the noise. The question could be asked, "Why not use wideband receiver for the repeater?" Great idea — if it were not for the large number of repeaters on the air. Using a wideband receiver would result in intermodulation, interference to the next channel, etc.

If you suspect a problem or are just curious, have your rig's deviation checked. It is not possible to judge deviation by ear. The only correct method is to use a monitor and set the deviation to 5 kHz. This assures that the rig will be able to enter any repeater without overdeviation.

Attention 6-M VHFers

–by Wayne Edwards, K4AUG

Would you be interested in helping to form a group of hams to install a 6-meter repeater, which would cover the Piedmont of North Carolina and Virginia as well as the Mountains of Va. and N.C.

Jim Phillips, KE4FJ and Wayne Edwards, K4AUG are trying to form such a group. We have a frequency coordinated and are using a temporary site near Martinsville, Va. We need a site somewhere on the Parkway from Roanoke, Va. to Wilkesboro, N.C. where power would be available.

We have most of the equipment needed for a 6-meter repeater. We need hams who could help maintain and support it. We will meet with any who contact us and are interested. We operate 6-meter SSB 7:00 to 9:30 p.m. most nights, or write: WAYNE EDWARDS, K4AUG, 240 Kenmore Drive, Danville, Va. 24541. Phone (804) 799-3381 evenings.

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ST-BC Belt Clip with Radio back	12.95
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5.33 /PKET	MEMPHIS	TN
6.50 /2.525	CLARKSBURG	WV
7.43 /4.93	LYNCHBURG	VA
4.51 /5.11	DECATUR*	GA
	MILLEDGEVILLE	GA
	SAURATOWN MT	NC
	KNOXVILLE	TN
	RICHMOND	VA
	SALT ROCK	WV
4.53 /5.13	NEWNAN*	GA
	AHOSKIE	NC
	GREENWOOD/HODGES	SC
	CHATTANOOGA-RTTY	TN
	LAFOLLETTE	TN
	GALAX/LKOUT MT	VA
4.55 /5.15	ATLANTA/GA TECH*	GA
	MAYODAN	NC
	MORENTN/HI PK	NC
	BESSEMER(ALA)	TN
	DECATUR-PONE KB	TN
	FRANKLIN	TN
	MARMET/BEE MT	WV
	MARTINSBURG	WV
4.57 /5.17	HAMPTON	GA
	JONESBORO	GA
	CHARLOTTE	NC
	OXFORD	NC
	LENOIR CITY	TN
	MURFREESBORO	TN
	BOLT MT	WV
4.59 /5.19	HAMILTON	GA
	MT MITCHELL	NC
	JASPER	TN
	WHEELING	WV
4.61 /5.21	RIVERDALE	GA
	SMYRNA	GA
	COLUMBIA	NC
	LEWISVILLE	NC
	GASTON	SC
	KNOXVILLE	TN
	HUNTINGTON	WV
4.63 /5.23	ASHBURN	GA
	SAVANNAH	GA
	CHARLOTTE	NC
	MCMINNVILLE	TN
	MIDDLEBRO(KY/TN)	TN
	LOGAN	WV
4.65 /5.25	DALTON*	GA
	FOREST PARK	GA
	GREENSBORO	NC
	CHARLESTON	SC
	FISHERVILLE	TN
	GREENEVILLE	TN
	NASHVILLE	TN
4.67 /5.27	CANTON	GA
	HENDSVL/PINCK MT	NC
	RALEIGH	NC
	SEVIERVILLE	TN
	MANASSAS	VA
	PIE HORSE MT	WV
4.69 /5.29	PRESTONSBURG*	EK
	ATLANTA	GA
	CLEVELAND	GA
	CHARLOTTE	NC
	CHATTANOOGA	TN
	JOHNSON CITY	TN
	CHESAPEAKE	VA
4.71 /5.31	ATLANTA	GA
	TRENTON	NC
	ROCK HILL	SC
	ATHENS	TN
	JACKSON	TN
	ALEXANDRIA	VA
	LAYLAND/MANN MT	WV
4.73 /5.33	JONESBORO	GA
	MT AIRY/TRNR MT	NC
	BAMBERG	SC
	CHATTANOOGA	TN
	KNOXVILLE	TN
	PARSONS	WV
4.75 /5.35	SANDY SPRINGS	GA
	GREENVILLE	NC
	MOORESVILLE	NC
	NASHVILLE	TN
	BLAND	VA
	FALLS CHURCH	VA
4.77 /5.37	HAMILTON-RTTY	GA
	MARTINEZ*	GA
	WRENS*	GA
	N. WILKESBORO	NC
	KNOXVILLE	TN
	BECKLEY	WV
4.79 /5.39	GRIFFIN*	GA
	CHATTANOOGA	TN
	MT. JULIET	TN
	STANTONVILLE	TN
	GALAX	VA
	WESTON	WV
4.81 /5.41	ATLANTA/BELL*	GA
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	GREENEVILLE	TN
	MEMPHIS	TN
	LIBERTY	WV
4.83 /5.43	KENNESAW	GA
	GREEN MT	NC
	KNOXVILLE	TN
	NASHVILLE	TN
	RICHMOND	VA
	MORGANTOWN	WV
4.85 /5.45	ATLANTA	GA
	CROWDERS MT	NC
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	BENTON	TN
	WELCH	WV
4.87 /5.47	ROSWELL	GA
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	KNXVL/HOUSE MT	TN
	MOUNTAIN CITY	TN
	NASHVILLE	TN
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4.89 /5.49	MARTINEZ	GA
	VIENNA	GA
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	RALEIGH	NC
	RCKY RD/WALLACE	SC
	MCMINVL/SHT MT	TN
	MEMPHIS	TN
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	BLUEFIELD	WV
6.625/6.025	MARTIN	TN
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6.655/6.055	BROWNSVILLE	TN
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	BROMLEY MT	VA
	CHESAPEAKE	VA
	LYNCHBURG	VA
	SPENCER	WV
6.025/6.625	LAURINBURG	NC
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6.04 /6.64	ATLANTA	GA
	CARROLLTON	GA
	WAYCROSS	GA
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	RALEIGH	NC
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	SUMTER	SC
	CROSSVILLE	TN
	MADISON	TN
	MEMPHIS	TN
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	MARION	VA
	RICHMOND	VA
	HUNTINGTON	WV
6.055/6.655	CONCORD/KANNAP.	NC
	ALEXANDRIA	VA
	ALTAVISTA	VA
6.06 /6.66	MACON	GA
6.07 /6.67	HAZARD	EK
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	RAVENSWOOD	WV
6.085/6.685	ADAIRSVILLE	GA
	GRIFTON	NC
	STATESVILLE	NC
	NEWBERRY	SC
	VIENNA	VA
6.10 /6.70	ALBANY	GA
	JASPER	GA
	MILLEDGEVILLE	GA
	SAVANNAH	GA
	DUNN	NC
	GREENVILLE	SC
	LANCASTER	SC
	CHATTANOOGA	TN
	FRAYSER	TN
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	DANVILLE/WHT OAK	VA
	DUFFLD/POWLL MT	VA
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	RAVENSWOOD	WV
6.115/6.715	RINGGOLD	GA
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	BLACKSBURG	VA
	STERLING	VA
6.12 /6.72	ST ALBANS/COAL	WV
6.13 /6.73	GUTHRIE	EK
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	ALBANY	GA
	ATHENS	GA
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	CHARLESTON	SC
	CHATTANOOGA	TN
	JOHNSON CITY	TN
	NASHVILLE	TN
	CHESAPEAKE	VA
	FAIRFAX	VA
	OAK HILL	WV
6.205/6.805	DECATUR*	GA
	FAYETTEVILLE	NC
	GASTONIA	NC
7.405/6.805	MAGGIE VALLEY	NC
6.22 /6.82	ALBANY	GA
	ATLANTA	GA
	LYONS	GA
	ROARING GAP	NC
	WILMINGTON	NC
	GRNVLE/PARIS MT	SC
	LAKE CITY	TN
	MEMPHIS	TN
	WINCHESTER	TN
	COVINGTON	VA
	WINCHESTER	VA
	CHARLESTON	WV
	CLARKSBURG	WV
6.235/6.835	ASHEVILLE	NC
	NAGS HEAD/BODIE	NC
	WADESBORO	NC
	HAZEL MT	VA
7.255/6.835	LEXINGTON	SC
6.25 /6.85	PIKEVILLE*	EK
	DALLAS	GA
	WARNER ROBINS	GA
	GOLDSBORO	NC
	HICKORY/BRT. MT	NC
	REIDSVILLE	NC
	FLORENCE	SC
	LAURENS	SC
	GTLBG/COVE MTN	TN
	MEMPHIS	TN
	NASHVILLE	TN
	PORTSMOUTH	VA
	STAUNTON	VA
	BKLY/FLAT TOP MT	WV
	BUCKHANNON	WV
6.265/6.865	FAYETTEVILLE	TN
7.465/6.865	WAXHAW	NC
6.28 /6.88	COLUMBUS	GA
	MARIETTA	GA
	QUITMAN	GA
	SAVANNAH*	GA
	RALEIGH	NC
	SHELBY	NC
	COLUMBIA	SC
	BRISTOL	TN
	MEMPHIS	TN
	NASHVILLE	TN
	OAK RIDGE	TN
	BRISTOL	VA
	RICHMOND	VA
	SALEM	VA
	CHARLESTON	WV
6.295/6.895	MADISON	NC
	WAXHAW	NC
6.31 /6.91	MOREHEAD	EK
	GAINESVILLE	GA
	GRIFFIN	GA
	AHOSKIE	NC
	ASHVL/SPIVEY MT	NC
	FAYETTEVILLE	NC
	LEXINGTON	NC

REPEATERS BY FREQUENCY CONTINUED

	WHITE HALL	SC
	SAVANNAH	TN
	SHORT MTN	TN
	FARMVILLE	VA
	JONESVILLE	VA
	MT. LK/BALD KNB	VA
	TYSONS CORNER	VA
	COTTAGEVILLE	WV
	FAIRMONT	WV
	MCMECHEN	WV
6.325/6.925	ROCK HILL	SC
	CHARLOTTESVILLE	VA
	DANVILLE(DCC)	VA
6.34 /6.94	ASHLAND	EK\
	AUGUSTA*	GA
	ROME	GA
	WRIGHTSVILLE	GA
	BURGAW	NC
	CHARLOTTE	NC
	DURHAM	NC
	MANTEO	NC
	MT AIRY-RTTY	NC
	COLUMBIA	SC
	GREER	SC
	KNOXVILLE	TN
	MEMPHIS	TN
	NASHVILLE	TN
	HAMPTON	VA
	RICHMOND	VA
	ROANOKE	VA
	NEW MARTINSVLLE	WV
	RICHWOOD	WV
	WEIRTON	WV
6.355 6.955	ROCKINGHAM	NC
	JUMPING BRANCH	WV
6.37 /6.97	ATLANTA	GA
	SAVANNAH*	GA
	MT AIRY	NC
	SMITHFIELD	NC
	ANDERSON	SC
	FLORENCE	SC
	ALTAMONT	TN
	KNGSPT/BAYS MT	TN
	MEDINA	TN
	OAK RIDGE	TN
	MANASSAS	VA
	STAUNTON	VA
	VIRGINIA BEACH	VA
	LOGAN	WV
	PARKERSBURG	WV
6.385/6.985	PRESTON	GA
	ALBEMARLE	NC
	OLD FORT	NC
	ROANOKE/POOR MT	VA
6.40 /7.00	ATLANTA	GA
	LAGRANGE	GA
	HIGH POINT	NC
	JACKSONVILLE	NC
	MARION	SC
	PICKENS	SC
	MEMPHIS	TN
	SUFFOLK	VA
	ST ALBANS	WV
7.60 /7.00	ELKHORN CITY	EK\
	HIGH POINT	NC
	BLOUNTVILLE	TN
	CHATT/SIGNAL MT	TN
	CLARKSVILLE	TN
	HAYSI	VA
	TERRA ALTA	WV
7.615/7.015	CHARLOTTE	NC
	SUMTER	SC
	NASHVILLE	TN
	FREDRICKSBURG	VA
6.43 /7.03	ERWIN	NC
	ROCK HILL	SC
	FRAYSER	TN
	LEXINGTON	TN
7.63 /7.03	GREENSBORO	NC
	ROANOKE RAPIDS	NC
	MYRTLE BEACH, N	SC
	FAYETTEVILLE	TN
	MEMPHIS	TN
	MORRISTOWN	TN
	WAYNESBORO	VA
	MULLENS	WV
	ST MARYS/BENS R	WV
6.445/7.045	HOPE MILLS	NC
	ROBBINSVILLE	NC
	YOUNGSVILLE	NC
	ARLINGTON	VA
7.645/7.045	METTER	GA
	STATSVL/ASBRY MT	NC
	RADFORD	VA
	STAUNTON/EL. KB	VA
	VIRGINIA BEACH	VA
6.06 /7.06	MADISON	WV
6.46 /7.06	COHUTTA-RTTY	GA
	CHARLOTTE	NC
	ELIZABETH CITY	NC
	MEMPHIS	TN
	SOUTH BOSTON	VA
	PRINCETON	WV
7.66 /7.06	MACON	GA
	THOMASVILLE	GA
	MACO	NC
	SUMTER	SC
	GREENEVILLE	TN
	SHELBYVILLE	TN
	CHESTER	VA
	POINT PLEASANT	WV
6.475/7.075	BURLINGTON	NC
7.675/7.075	BURLINGTON	NC
	GOOSE CREEK	SC
	KNOXVILLE	TN
	WAYNSBR/AFTON MT	VA
7.69 /7.09	GREENVL/ESTN NC	NC
	ORANGEBURG	SC
	SPARTANBURG	SC
	MEMPHIS	TN
	SPARTA/BON AIR	TN
	GALAX/BRIRP MT	VA
7.70 /7.10	BLAIRSVILLE	GA
7.705/7.105	MARION/OLD FORT	NC
	MONROE/UCARS	NC
	NASHVILLE	TN
	BEDFORD	VA
6.09 /7.11	LOGAN	WV
7.72 /7.12	AUGUSTA*	GA
	CEDARTOWN	GA
	GAST/SPCR MT	NC
	ROCKY MOUNT	NC
	MYRTLE BEACH	SC
	COLUMBIA	TN
	MEMPHIS	TN
	OAK RIDGE	TN
	CULPEPPER	VA
	BRIDGEPORT	WV
	DUNBAR	WV
7.735/7.135	DALTON*	GA
	BREVARD/TRNS CTY	NC
	FRIES	VA
	RICHMOND	VA
7.75 /7.15	CUMMING	GA
	MORGANTON	NC
	RALEIGH	NC
	SIMPSONVILLE	SC
	MEMPHIS	TN
	NASHVILLE	TN
	OAK RIDGE	TN
	TAZEWELL	VA
	MCMECHEN	WV
	ST ALBANS/COAL	WV
7.765/7.165	HIGH POINT	NC
	GREENWOOD	SC
	NEWPORT NEWS	VA
	WARRENTON	VA
7.78 /7.18	AUGUSTA*	GA
	BALDWIN	GA
	SANFORD	NC
	WILMINGTON	NC
	CAROWINDS	SC
	GOOSE CREEK	SC
	CLEVELAND	TN
	MEMPHIS	TN
	NASHVILLE	TN
	DUBLIN	VA
	PETERSBURG	VA
	LEON	WV
7.795/7.195	ATLANTA	GA
	LAKE TOXAWAY	NC
	LYNCHBURG	VA
7.81 /7.21	DALTON	GA
	STATESBORO	GA
	GREENSBORO	NC
	WHITEVILLE	NC
	LITTLE MT.	SC
	COOKEVILLE	TN
	JACKSON	TN
	MCLEAN	VA
	WISE/HIGH KNOB	VA
7.825/7.225	HILLSBOROUGH	NC
	MORRISTOWN	TN
	YORKTOWN	VA
7.84 /7.24	IRWINTON	GA
	CARTHAGE	NC
	EDEN/MAYODAN	NC
	FOREST CITY	NC
	FRANKLIN	NC
	HILTON HEAD	SC
	LANCASTER	SC
	PROSPERITY	SC
	GALLATIN	TN
	MEMPHIS	TN
	PETERSBURG	VA
	WOODBRIDGE	VA
7.855/7.255	ATLANTA	GA
	ASHEBORO	NC
	HENDSVL/STONY MT	NC
	ACCOMAC	VA
	MARTINSBURG	WV
7.87 /7.27	AMERICUS	GA
	BUFORD	GA
	BENSON	NC
	WAYNESVILLE	NC
	CHARLSTN/LDSN	SC
	SENECA/LONG MT	SC
	GALLATIN	TN
	JOHNSON CITY	TN
	MEMPHIS	TN
	GUM SPRING	VA
	SCOTT DEPOT	WV
7.885/7.285	ROCKY SPUR	SC
	MARTINSVILLE	VA
7.90 /7.30	SVR CRK/MT ALTO	GA
	JACKSONVILLE	NC
	TUCKASEGEE	NC
	AIKEN	SC
	CHARLESTON	SC
	KNOXVILLE	TN
	MEMPHIS	TN
	NASHVILLE	TN
	BLUEMONT/WINCH	VA
	CLIFTON FORGE	VA
	FRANKLIN	VA
	HUNTINGTON	WV
7.915/7.315	AUGUSTA*	GA
	UNION CROSS	NC
	CENTERVILLE	TN
	ALEXANDRIA	VA
7.92 /7.32	GRUNDY	VA
7.93 /7.33	LAGRANGE	GA
	TOCCOA*	GA
	FAYVLLE/FT BRAGG	NC
	LENOIR/HIBRITN	NC
	COLUMBIA	SC
	COVINGTON	TN
	CROSSVILLE	TN
	NASHVILLE	TN
	LEXNGTN/COLE MT	VA
	WARSAW	VA
7.945/7.345	SHELBY	NC
	WASHINGTON	NC
	HENDERSONVILLE	TN
	GATE CITY	VA
	FRANKLIN	WV
7.95 /7.35	DANVILLE	VA
7.96 /7.36	DOUGLASVILLE	GA
	DUBLIN	GA
	BOONE	NC
	GREENVILLE	NC
	LUMBERTON	NC
	COLUMBIA	SC
	KNOXVILLE	TN
	MEMPHIS	TN
	NASHVILLE S.	TN
	PARIS	TN
	CHESTERFIELD	VA
7.975/7.375	BURNSVILLE	NC
	HILLSVILLE	NC
	GEORGETOWN	SC
	HILLSVILLE	VA
	LYNCHBURG	VA
	NEWPORT NEWS	VA
	GRAFTON	WV
	ST ALBANS	WV
7.99 /7.39	JENKINS	EK\
	THOMASTON	GA
	CHARLOTTE	NC
	EDEN/STONEVILLE	NC
	SMITHFIELD	NC
	LEXINGTON	SC
	DAYTON/RHEA CTY	TN
	GALLATIN	TN
	MEMPHIS	TN
	MADISON	VA
	PETERSBURG	VA
	MONTGOMERY	WV
	PARKERSBURG	WV
6.43 /7.43	GRIFFIN	GA
5.00 /7.50	CHARLOTTE	NC
6.19 /7.51	MEMPHIS	TN
7.015/7.615	CLEVELAND	GA
	WARNER ROBINS	GA
7.075/7.675	BUFORD	GA
7.135/7.735	VALDOSTA	GA
	CHERAW	SC
	ALAMO	TN
7.21 /7.81	CONYERS	GA
7.225/7.825	CLOUDLAND	GA
7.285/7.885	ASHBURN	GA
	BIRMINGHAM(ALA)	TN
7.30 /7.90	ROME	GA
	MONROE	NC
7.315/7.915	DALTON*	GA
	FORSYTH	GA
6.085/7.955	MORGANTOWN	WV
7.375/7.975	ATHENS*	GA
	GREENVILLE	SC
5.23 /ET	HAMPTON	VA

220 MHZ

2.30 /3.90	COLUMBIA	SC
	HERMITAGE	TN
2.32 /3.92	HIGH POINT	NC
2.34 /3.94	CANTON	GA
	ASHVL/MT PISGAH	NC
	HILLSBOROUGH	NC
	CLARKSVILLE	TN
	MEMPHIS	TN
2.36 /3.96	ROCKY MOUNT	NC
2.38 /3.98	LINWOOD	NC
	GALLATIN	TN
2.40 /4.00	LOCUST	NC
	PETERSBURG	VA
2.42 /4.02	FAYETTEVILLE	NC
	HICKORY	NC
	NASHVILLE	TN
2.46 /4.06	EASLEY/SASFRS MT	SC
2.48 /4.08	NASHVILLE	TN
2.50 /4.10	FAIRFAX	VA
2.52 /4.12	KENNESAW	GA
2.54 /4.14	PICKENS/CSRS HD	SC
	FRANKLIN	TN
	HUNTINGTON	WV
2.56 /4.16	LENOIR/HIBRITN	NC
2.62 /4.22	NASHVILLE	TN
2.70 /4.30	STATESVILLE	NC
2.74 /4.34	FRIES	VA
2.80 /4.40	CHARLOTTE	NC
2.86 /4.46	KNOXVILLE	TN
2.90 /4.50	KNOXVILLE	TN
2.94 /4.54	MT MITCHELL	NC
3.00 /4.60	ASHEVILLE	NC
3.04 /4.64	RALEIGH	NC
	WINSTON-SALEM	NC
3.06 /4.66	CANTON	GA
3.08 /4.68	CHARLOTTE	NC
3.10 /4.70	WSTFLD/SAUTN MT	NC
3.14 /4.74	KINGSTON/LICK KB	WV
3.16 /4.76	SALISBURY	NC
	DAN/WHT OAK	VA
3.18 /4.78	CHATTANOOGA	TN
3.20 /4.80	MORGANTON	NC
3.22 /4.82	ATLANTA	GA
	GIBSONVILLE	NC
	KNOXVILLE	TN
	ALEXANDRIA	VA
3.28 /4.88	WSTFLD/SAUTN MT	NC
3.30 /4.90	COLUMBIA	SC
	CHATT/SIGNAL MT	TN
3.32 /4.92	CHAPEL HILL	NC
3.34 /4.94	KENNESAW	GA
	GREENEVILLE	TN
	ROANOKE/POOR MTN	VA
3.36 /4.96	CHERRYVILLE	NC
	GOLDSBORO	NC
3.38 /4.98	FALLS CHURCH	VA

CVRA-
SERA
DISTRICTS
INCLUDE

VIRGINIA
N CAROLINA
S CAROLINA
TENNESSEE
WEST VIRGINIA

CABARRUS AMATEUR RADIO SOCIETY

"Best Little Hamfest in Carolina"

SIXTH ANNUAL — A.R.R.L. APPROVED

HAMFEST

SUNDAY, NOVEMBER 4, 1984
9:00 a.m. to 4:00 p.m.

● NEW LOCATION ●

CENTRAL CABARRUS HIGH SCHOOL

N.C. Hwy. 49 ● Concord, North Carolina

● NEW LOCATION ●

● PRIZES ●
● PRE-REGISTRATION ●

WELZ 2-KILOWATT WATTMETER

(Thru assistance of Williams Radio Sales)

● MAIN PRIZES ●

DRAWINGS AT 2:30 p.m.

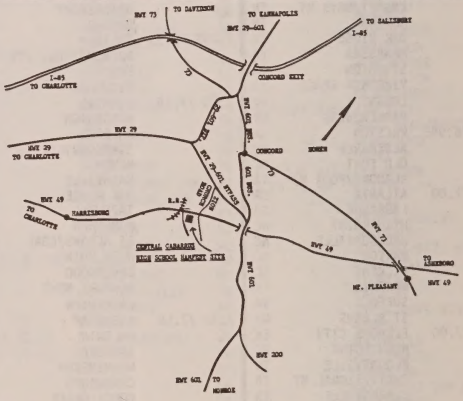
1st. — ICOM IC-730 HF TRANSCEIVER *

2nd. — ICOM IC-02AT HANDIE TALKIE *

3rd. — ICOM IC-2AT HANDIE TALKIE *

* *Thru assistance of ICOM America & The Hamshack*

YOU DO NOT HAVE TO BE PRESENT TO WIN ABOVE PRIZES



● CONCESSIONS ● FORUMS ● HOURLY PRIZES ● FREE TAILGATING ● LOUNGE

● FCC EXAMS ●

EXAM REGISTRATION REQUIRED — MUST BE RECEIVED NO LATER THAN SEPT. 21, 1984. SEND POSTCARD WITH NAME, ADDRESS, CALLSIGN, AND CLASS OF EXAM DESIRED TO: FCC EXAMS, 5403 CROFTON AVE., KANNAPOLIS, N.C. 28081.

● COMMERCIAL EXHIBITORS ●

WILLIAMS RADIO SALES
F & M ELECTRONICS
GISMO COMMUNICATIONS
VHF ELECTRONICS

● FREE PARKING ● TALK-IN ON 146.055 — 146.655 ● HANDICAPPED PARKING ON REQUEST

- LARGE FLEA MARKET AREA ● RESERVE EARLY ● SET UP TIME 8:00 A.M.
- FLEA MARKET TABLES $5.00 EACH OR TABLE SPACE $3.00 — BRING YOUR OWN TABLES, 30" x 8"
- PRE-REGISTRATION TICKETS $3.00 OR 4 FOR $10.00.
- REGISTRATION TICKETS AT THE DOOR $4.00 OR 4 FOR $12.00.
- CHILDREN UNDER 12 WILL BE ADMITTED WITHOUT CHARGE. TICKET REQUESTS RECEIVED AFTER OCTOBER 24TH. WILL NOT BE MAILED. THEY MAY BE PICKED UP AT THE DOOR.

C.A.R.S. ADVANCE TICKETS C/O CHARLIE MENIUS KD4WB
P.O. BOX 1093, KANNAPOLIS, N.C. 28081

CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	N	PA
ALBEMARLE	K4OGB	146.385	146.985		
ASHEBORO	WD4AIB	147.855	147.255		PAL
ASHEVILLE	WA4QCO	146.235	146.835		A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76		
ASHVL/SPIVEY MT	W4MOE	146.31	146.91		PA
BENSON	WR4ARL	147.87	147.27	N	PA
BOONE	WA4KDB	147.96	147.36		
BREVARD/TRNS CTY	N4GTG	147.735	147.135		
BURGAW	K4LZY	146.34	146.94		
BURLINGTON	WB4ZIN	146.07	146.67		A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	WA4LLR	147.975	147.375		A
CARTHAGE	W4NIW	147.84	147.24		EA
CHARLOTTE	KE4ZC	144.57	145.17		
CHARLOTTE	W4BFB	144.63	145.23		
CHARLOTTE	WD4JWO	144.69	145.29		
CHARLOTTE	KA4HNP	145.00	147.50	N	NB
CHARLOTTE	W4BFB	146.175	146.775		R
CHARLOTTE	W4BFB	146.34	146.94		A
CHARLOTTE	W4CQ	146.46	147.06	N	A
CHARLOTTE	WB4KPF	147.615	147.015	N	PA
CHARLOTTE	WD4PLY	147.99	147.39	N	
COLUMBIA	K4ITL	144.61	145.21	N	C
CONCORD/KANNAP.	K4CEB	146.055	146.655		A
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	WB4FXM	146.10	146.70		PA
DURHAM	WA4BFT	146.34	146.94	N	A
EDEN/MAYODAN	WA4ACP	147.84	147.24	N	
EDEN/STONEVILLE	WA4QBG	147.99	147.39		
ELIZABETH CITY	WA4VTX	146.46	147.06		A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
ERWIN	WR4ALY	146.43	147.03	N	
FAYETTEVILLE	N4EWG	146.205	146.805		
FAYETTEVILLE	WB4YZF	146.31	146.91		
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33		
FISHERS PK/WS	W4HKB	144.87	145.47		P
FOREST CITY	W4TMT	146.07	146.67	N	A
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4GHZ	147.84	147.24		
FRNKLN/COWEE BLD	N4AC	144.89	145.49		
GAST/SPCR MT	W4REW	147.72	147.12		A
GASTONIA	K4ZFD	146.205	146.805	N	L
GOLDSBORO	K4CYP	146.25	146.85		A
GREEN MT	K4ITL	144.83	145.43		L
GREENSBORO	N4AZM	144.65	145.25	N	A
GREENSBORO	K4SNI	146.01	146.61		A
GREENSBORO	WA4MSS	146.16	146.76		
GREENSBORO	WD4IPZ	147.63	147.03		PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENVILLE	WA4DAN	144.75	145.35		L
GREENVILLE	W4AMC	147.96	147.36		
GREENVL/ESTN NC	W4GDF	147.69	147.09		
GRIFTON	W4NBR	146.085	146.685		
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/PINCK MT	WA4KNI	144.67	145.27		A
HENDSVL/STONY MT	WA4KNI	147.855	147.255		A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	N	
HIGH POINT	N4XO	144.81	145.41	N	
HIGH POINT	WB4IKY	146.40	147.00		LA
HIGH POINT	WB4IKY	147.60	147.00		LA
HIGH POINT	KA4DHP	147.765	147.165		PA
HILLSBOROUGH	WA4WTX	147.825	147.225		A
HILLSVILLE	WD4BTS	147.975	147.375	N	A
HOPE MILLS	WB4TRW	146.445	147.045	N	
JACKSONVILLE	WD4FVO	146.40	147.00		PA
JACKSONVILLE	WR4ATW	147.90	147.30	N	
LAKE TOXAWAY	K4MSK	147.795	147.195		EA
LAURINBURG	K4QWK	146.025	146.625		A
LENOIR/HIBRITN	KN4K	147.93	147.33		
LEWISVILLE	N4GGK	144.61	145.21		PA
LEXINGTON	K4IZM	146.31	146.91		PA
LILLINGTON	WA4FKI	144.87	145.47	N	
LUMBERTON	WB4MDI	147.96	147.36		
MACO	WA4LED	147.66	147.06		
MADISON	KA4YFF	146.295	146.895		R
MAGGIE VALLEY	W4HCY	147.405	146.805		
MANTEO	W4PCN	146.34	146.94		PA
MARION/OLD FORT	KA4DEC	147.705	147.105		
MAYODAN	N4GWZ	144.55	145.15	N	C
MONROE	K4BGU	147.30	147.90	N	NB
MONROE/UCARS	K4JCK	147.705	147.105		A
MOORESVILLE	N4JEV	144.75	145.35	N	VC
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4RP	147.75	147.15		
MT AIRY	WA4ZAS	146.37	146.97		EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94		R
MT AIRY/TRNR MT	KD4J	144.73	145.33		
MT MITCHELL	WA4BVW	144.59	145.19		
N. WILKESBORO	N4AGN	144.77	145.37		LPA
NAGS HEAD/BODIE	KE4PB	146.235	146.835	N	
NEW BERN	WD4JMS	146.01	146.61		A
NEWPORT	K4GRW	144.85	145.45		AL
OLD FORT	KA4ROZ	146.385	146.985	N	C
OXFORD	N4EKK	144.57	145.17		T
RALEIGH	N4BEA	144.67	145.27		PAL
RALEIGH	N4BEA	144.89	145.49		PA
RALEIGH	W4DW	146.04	146.64		A
RALEIGH	K4BWC	146.13	146.73		A
RALEIGH	K4ITL	146.28	146.88		
RALEIGH	K4ITL	147.75	147.15		PA
REIDSVILLE	K4YFT	146.25	146.85		
ROANOKE RAPIDS	K4PUV	147.63	147.03		
ROARING GAP	WB4PZA	146.22	146.82		
ROBBINSVILLE	WD4CNS	146.445	147.045		
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	WB4WAA	147.72	147.12		A
SALISBURY	W4EXU	146.13	146.73		
SANFORD	WB4EJJ	147.78	147.18		A
SAURATOWN MT	N4HVQ	144.51	145.11		L
SAURATOWN MT	WB4IKY	146.19	146.79		A
SHELBY	WD4DJA	146.28	146.88	N	
SHELBY	WD4DJA	147.945	147.345		A
SMITHFIELD	KD4JQ	146.37	146.97		A
SMITHFIELD	W4MKL	147.99	147.39	N	PA
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685		PA
STATSVL/ASBRY MT	WA4JRL	147.645	147.045		
SWANSBORO	KO4S	146.16	146.76		
TRENTON	K4ITL	144.71	145.31	N	C
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315		
WADESBORO	WA4IAT	146.235	146.835		
WASHINGTON	WA4TEP	147.945	147.345	N	C
WAXHAW	WB4OOA	146.295	146.895	N	PA
WAXHAW	WA4ZRS	147.465	146.865		A
WAYNESVILLE	N4SM	147.87	147.27		PA
WHITEVILLE	K4MSD	147.81	147.21		
WILLIAMSTON	KA4KNU	144.81	145.41		
WILMINGTON	W4VNK	146.13	146.73		EA
WILMINGTON	K4GMP	146.22	146.82		EA
WILMINGTON	WD4HMA	147.78	147.18	N	C
WILSON	WB4THL	146.16	146.76		
WINSTON-SALEM	WA4GIC	146.04	146.64		A
YOUNGSVILLE	WD4AUI	146.445	147.045	N	

220 MHZ

ASHEVILLE	NC4N	223.00	224.60		
ASHVL/MT PISGAH	WA4BVW	222.34	223.94		
CHAPEL HILL	K2MZ	223.32	224.92	N	C
CHARLOTTE	KE4ZC	222.80	224.40		
CHARLOTTE	WB4KPF	223.08	224.68	N	LA

CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	N	
GIBSONVILLE	WB4IKY	223.22	224.82		R
GOLDSBORO	WD4OYO	223.36	224.96	N	
HICKORY	WA4MDW	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92		LPA
HILLSBOROUGH	WA4WTX	222.34	223.94		L
LENOIR/HIBRITN	KN4K	222.56	224.16		
LINWOOD	KA4HUV	222.38	223.98	N	
LOCUST	WA4ZIA	222.40	224.00		PA
MORGANTON	WB4PML	223.20	224.80	N	
MT MITCHELL	WA4BVW	222.94	224.54		
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	KA4DAP	222.36	223.96	N	
SALISBURY	W4EXU	223.16	224.76		
STATESVILLE	WA4PVI	222.70	224.30	N	
WINSTON-SALEM	WA4YHH	223.04	224.64	N	
WSTFLD/SAUTN MT	W4RXG	223.10	224.70		R
WSTFLD/SAUTN MT	W4RXG	223.28	224.88		

440 MHZ

AHOSKIE	WB4YNF	449.20	444.20	N	C
ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHAPEL HILL	K2MZ	448.875	443.875	N	C
CHARLOTTE	W4BFB	449.60	444.60		
CHARLOTTE	W4CQ	449.85	444.85	N	
FAYETTEVILLE	KB4ZW	449.40	444.40		
GREENSBORO	WB4HZI	449.90	444.90	N	
GREENVILLE	AI4J	449.80	444.80	N	
HIGH POINT	K4AZA	447.90	442.90		L
HILLSBOROUGH	WA4WTX	449.10	444.10		PA
LOCUST	WA4LBT	448.70	443.70		
MT MITCHELL	N4DWU	448.65	443.65		C
ROCKY MOUNT	N4JEH	449.70	444.70		C
WILKESBORO	KC4XE	448.55	443.55		L
WILMINGTON	KB4BR	449.70	444.70		C
WILSON	NE4J	449.90	444.90	N	C
WIN-SAL/SAUTN MT	WB4KQN	448.00	443.00		LC

10 METERS

CHAPEL HILL	K2MZ	29.54	29.64	N	C
WILKESBORO	KC4XE	29.52	29.62		L

6 METERS

CARY	WR4AVP	52.35	53.35	N	NB
CHARLOTTE	KE4ZC	52.03	53.03		
HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	N	
NEWPORT	K4GRW	52.01	53.01	N	P
ROANOKE RAPIDS	K4PUV	52.03	53.03		C
STATESVILLE	WA4WRS	52.67	53.67	N	

WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY	KC8FW	144.77	145.37	N	LA
BKLY/FLAT TOP MT	K8BO	146.25	146.85		A
BLUEFIELD	W8MOP	144.89	145.49		A
BOLT MT	KD8X	144.57	145.17	N	L
BRIDGEPORT	K8VNQ	147.72	147.12		EAL
BUCKHANNON	K8WYH	146.25	146.85	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CLARKSBURG	WB8ZVS	146.22	146.82		
CLARKSBURG	WB8DTM	146.50	52.525	N	NB
COTTAGEVILLE	WR8AKV	146.31	146.91	N	
DUNBAR	K8VKI	147.72	147.12		EA
FAIRMONT	W8SP	146.31	146.91		
FRANKLIN	W3RUA	147.945	147.345		
GRAFTON	K8VNQ	147.975	147.375		L
HUNTINGTON	WB8FEQ	144.61	145.21	N	P
HUNTINGTON	WB8EZR	146.04	146.64		
HUNTINGTON	W8VA	146.16	146.76		A
HUNTINGTON	KA8BKX	147.90	147.30	N	
JUMPING BRANCH	WD8OGY	146.355	146.955	N	
KINGSTON/LICK KB	W8FG	144.87	145.47		
LAYLAND/MANN MT	N8BZS	144.71	145.31	N	L
LEON	WB8NMT	147.78	147.18	N	
LIBERTY	K8SLI	144.81	145.41	N	P
LOGAN	WD8KWC	144.63	145.23	N	
LOGAN	WA8ZLR	146.09	147.11	N	ONB
LOGAN	WD8DRV	146.37	146.97		
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VUZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91		
MCMECHEN	N8CFX	147.75	147.15		
MONTGOMERY	WB8VUY	147.99	147.39	N	
MORGANTOWN	K8LG	144.83	145.43	N	L
MORGANTOWN	WB8YZT	146.085	147.955	N	NB
MORGANTOWN	W8CUL	146.16	146.76		LPA
MULLENS	KC8II	147.63	147.03		LA
NEW MARTINSVLLE	WR8ABY	146.34	146.94	N	
OAK HILL	W8GH	146.19	146.79		EA
PARKERSBURG	WA8CRW	146.37	146.97		PA
PARKERSBURG	WD8AXY	147.99	147.39		
PARSONS	K8VNQ	144.73	145.33		EAL
PIE HORSE MT	N8APH	144.67	145.27	N	A
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KA8PNC	146.46	147.06		A
RAVENSWOOD	WD8JNU	146.07	146.67		
RAVENSWOOD	WD8JNU	146.10	146.70		R
RICHWOOD	K8VKB	146.34	146.94		
SALT ROCK	WD8MCR	144.51	145.11	N	
SCOTT DEPOT	K8SLI	147.87	147.27	N	A
SPENCER	WA8SAK	146.01	146.61	N	
ST ALBANS	WB8GDY	146.40	147.00		
ST ALBANS	K8BCH	147.975	147.375		R
ST ALBANS/COAL	WB8KAD	146.12	146.72	NB	PA
ST ALBANS/COAL	WB8OEC	147.75	147.15	N	
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
TERRA ALTA	WB8PHU	147.60	147.00		PA
WEIRTON	KC8JN	146.34	146.94		A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	W8PZT	144.79	145.39	N	
WHEELING	W8YFX	144.59	145.19		
WHEELING	W8JDH	146.16	146.76	N	

6 METERS

ST MARYS/BENS R	WD8RET	52.17	53.17	N	L

220 MHZ

HUNTINGTON	KA8BKX	222.54	224.14	N	
KINGSTON/LICK KB	W8FG	223.14	224.74	N	

440 MHZ

KINGSTON/LICK KB	KA8EMX	449.80	444.80	N	
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80		PA

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255		EA
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655		PA
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67		
BEDFORD	WB4JBJ	147.705	147.105		LR
BLACKSBURG	AB9I	146.115	146.715		
BLAND	N4AZJ	144.75	145.35	N	L
BLUEFIELD	W8MOP	144.89	145.49		A
BLUEMONT/WINCH	WA4TSC	147.90	147.30		
BRISTOL	K4TLW	146.07	146.67	N	A

BRISTOL	WDECYZ	146.28	146.88	N
BROMLEY MT	WR4ATJ	146.01	146.61	N
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	
CHESAPEAKE	K4NDH	144.69	145.29	EA
CHESAPEAKE	N4GSP	146.01	146.61	
CHESAPEAKE	N4SD	146.19	146.79	A
CHESTER	WA4ECM	147.66	147.06	PA
CHESTERFIELD	KA4CBB	147.96	147.36	PA
CLIFTON FORGE	K4QEL	147.90	147.30	N
COVINGTON	WA4HTI	146.22	146.82	
CULPEPPER	N4FAF	147.72	147.12	M
DANVILLE	K4YZR	147.95	147.35	N NB
DANVILLE(DCC)	WB4GJG	146.325	146.925	
DANVILLE/WHT OAK	K4WQS	146.10	146.70	
DUBLIN	KT4Z	147.78	147.18	PA
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	
FAIRFAX	W4LBL	146.19	146.79	M PA
FALLS CHURCH	W4AQD	144.75	145.35	M T
FARMVILLE	WB4NWP	146.31	146.91	N A
FINCASTLE	W4WIC	146.04	146.64	
FOREST	K4STE	146.16	146.76	A
FRANKLIN	K4SPS	147.90	147.30	N PA
FREDRICKSBURG	WB4LNT	147.615	147.015	
FRIES	WA4DFH	147.735	147.135	A
GALAX	WA4ZIV	144.79	145.39	N
GALAX/BRIRP MT	N4VL	147.69	147.09	
GALAX/LKOUT MT	N4VL	144.53	145.13	
GATE CITY	WD4GTA	147.945	147.345	N
GRUNDY	K4HWQ	147.92	147.32	N ANB
GUM SPRING	KB4GX	147.87	147.27	
HAMPTON	K4UMI	145.23	PKET	N
HAMPTON	K4DHO	146.13	146.73	
HAMPTON	K4UMI	146.34	146.94	N T
HAYSI	WB4WAU	147.60	147.00	
HAZEL MT	WD4CYZ	146.235	146.835	N
HILLSVILLE	WD4BTJ	147.975	147.375	A
JONESVILLE	WA4OVC	146.31	146.91	
LEXINGTON	WA4WBD	146.07	146.67	A
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N
LYNCHBURG	W4WWQ	146.01	146.61	
LYNCHBURG	AB4M	147.43	144.93	NB
LYNCHBURG	WA4RTS	147.795	147.195	
LYNCHBURG	W4OSH	147.975	147.375	N PA
MADISON	N4AJO	147.99	147.39	M
MANASSAS	WD4JCE	144.67	145.27	M R
MANASSAS	WA4FPM	146.37	146.97	PA
MARION	N4BIW	146.04	146.64	
MARTINSVILLE	AB4L	147.885	147.285	
MCLEAN	WD4IWG	147.81	147.21	M R
MT. LK/BALD KNB	K4TUE	146.31	146.91	
NEW MARKET	WB4DAK	146.025	146.625	
NEWPORT NEWS	WB4CTF	147.765	147.165	PA
NEWPORT NEWS	WA4OHX	147.975	147.375	PA
NORFOLK	NE4D	146.10	146.70	
PETERSBURG	N4KAF	147.78	147.18	N
PETERSBURG	K4ARO	147.84	147.24	TPA
PETERSBURG	K4ARO	147.99	147.39	
PORTSMOUTH	N4PR	146.25	146.85	
RADFORD	KC4WA	147.645	147.045	
RICHMOND	K4YPE	144.51	145.11	N
RICHMOND	W4SQT	144.83	145.43	
RICHMOND	WB4QEY	146.04	146.64	PA
RICHMOND	WA4ZBE	146.28	146.88	PA
RICHMOND	W4ZA	146.34	146.94	T

CVRA REPEATER SYMBOLS

Unmarked in First Code column-Full CVRA Members		RB	Remote Base System
		T	Tone Access Repeater
N	NON Member CVRA	L	Linked Repeater
NB	Not On Band Plan Freq.	R	Radioteletype Rptr.
M	T-MARC Repeater	V	Television (SS or ATV)
A	Open Autopatch	P	Proposed Repeater
FA	Private Autopatch	C	Under Construction
EA	Emerg. Autopatch	O	Off Air Temporarily

RICHMOND	N4HB	147.735	147.135	
ROANOKE	WB4QET	146.34	146.94	A
ROANOKE/POOR MT	WB4QOJ	146.145	146.745	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	
SALEM	W4PDL	146.28	146.88	N
SOUTH BOSTON	WD4LBM	146.46	147.06	
STAUNTON	W4XD	146.10	146.70	
STAUNTON	WA4ZBP	146.25	146.85	
STAUNTON	W4WRN	146.37	146.97	EA
STAUNTON/EL. KB	W4WRN	147.645	147.045	
STERLING	WA4TXE	146.115	146.715	M
SUFFOLK	WR4AKS	146.40	147.00	N PA
TAZEWELL	WD4DZE	147.75	147.15	N
TYSONS CORNER	WB4FMD	146.31	146.91	M PA
VIENNA	K4HTA	146.085	146.685	M
VIRGINIA BEACH	WA4KXV	146.37	146.97	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N
WARRENTON	WB4FJT	147.765	147.165	M
WARSAW	WA4UAF	147.93	147.33	
WAYNESBORO	W4BLD	147.63	147.03	
WAYNSBR/AFTON MT	W4PNT	147.675	147.075	
WILLIAMSBURG	W4NTG	146.07	146.67	
WINCHESTER	W4RKC	146.22	146.82	
WISE/HIGH KNOB	K4AXO	147.81	147.21	
WOODBRIDGE	WB4FQR	147.84	147.24	M A
WYTHEVILLE	WA4EMS	146.175	146.775	
YORKTOWN	WD4SDC	147.825	147.225	N

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M L
DAN/WHT OAK	K4OAK	223.16	224.76	N
FAIRFAX	WB4YHD	222.50	224.10	M L
FALLS CHURCH	N4CHP	223.38	224.98	M PA
FRIES	WA4DFH	222.74	224.34	N
PETERSBURG	K4ARO	222.40	224.00	
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	

440 MHZ

ALBERTA	K4ARO	449.55	444.55	L
ALEXANDRIA	WR4AAG	439.25	426.27	M V
ALEXANDRIA	W4HFH	449.60	444.60	M
BLUEMONT/WINCH	WA4TSC	444.925	449.925	NB
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	
COVINGTON	WA4HTI	447.25	442.25	
FALLS CHURCH	WB8CRK	449.45	444.45	M L
FINCASTLE	W4WIC	448.75	443.75	
HAMPTON	K4UMI	448.65	443.65	N
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N
LYNCHBURG	WB4DBB	449.35	444.35	L
LYNCHBURG	K4HEX	449.50	444.50	RB
MANASSAS	WD4JCE	444.225	449.225	M L
MANASSAS	WB3EAQ	448.30	443.80	M
NORTHWEST/SE VA	KR4K	448.80	443.80	N
PETERSBURG	K4ARO	449.40	444.40	
PETERSBURG	K4ARO	449.85	444.85	
RICHMOND	N4HB	449.00	444.00	N
RICHMOND	K4ARO	449.65	444.65	
ROANOKE	WR4AFE	447.75	442.75	N
ROANOKE/POOR MT	W4CA	447.50	442.50	
SALUDA	WA4UAF	448.90	443.90	N
SPRINGFIELD	AA4VA	449.15	444.15	M
TYSONS CORNER	WB6GUS	448.50	443.50	M
TYSONS CORNER	K4JYF	449.75	444.75	M
VIRGINIA BEACH	WA4KXV	449.95	444.95	
WAYNESBORO	W4BLD	449.30	444.30	PA
WAYNSBR/AFTON MT	W4BLD	449.05	444.05	
WILLIAMSBURG	W4NTG	448.95	443.95	M
WINCHESTER	W3CSG	447.00	442.00	M
WOODBRIDGE	WB4FQR	444.90	449.90	M

6 METERS

ABINGTON	WR4ATJ	52.01	53.01	M L
ALEXANDRIA	WA4CCF	52.13	53.13	M L
DANVILLE(DCC)	WB4GJG	52.13	53.13	
FAIRFAX	KA4DCS	52.58	52.48	M NB

LEXNGTN/COLE MT	K4PQD	52.01	53.01	N L
NORTN/HIGH KB	K4LSP	52.01	53.01	N
RICHMOND	KA4NNN	52.43	53.43	N
RIDGEWAY	KE4FJ	52.25	53.25	
ROANOKE/POOR MT	WB4DBB	52.15	53.15	

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.90	147.30	
ANDERSON	N4SZ	146.37	146.97	PA
ANDSN/SASFRAS MT	W4FVV	146.19	146.79	
BAMBERG	WA4DFP	144.73	145.33	N
CAROWINDS	AA4SC	147.78	147.18	
CHARLESTON	WB4URP	144.65	145.25	N
CHARLESTON	K4TLT	146.16	146.76	N PA
CHARLESTON	W4IVE	146.19	146.79	N
CHARLESTON	K4LWS	147.90	147.30	A
CHARLSTN/LDSN	WB4LET	147.87	147.27	PA
CHELSEA	KB4GY	146.01	146.61	
CHERAW	KA4ABW	147.135	147.735	PA
COLUMBIA	K4AVU	146.28	146.88	
COLUMBIA	K4LNU	146.34	146.94	
COLUMBIA	WB4VLY	147.93	147.33	O
COLUMBIA	K4LNU	147.96	147.36	PA
DILLON/PEE DEE	NN4N	146.145	146.745	EA
FLORENCE	W4ULH	145.01	PKET	
FLORENCE	W4ULH	146.25	146.85	A
FLORENCE	WA4ISM	146.37	146.97	PA
FT JACKSON	WB4OCB	146.16	146.76	
GASTON	WB4NEP	144.61	145.21	PA
GEORGETOWN	WD4DMI	147.975	147.375	N
GOOSE CREEK	WD4NUN	147.675	147.075	A
GOOSE CREEK	W4NAT	147.78	147.18	N
GREENVILLE	W4AZT	146.10	146.70	A
GREENVILLE	K4LEO	147.375	147.975	NB
GREENWOOD	WB4UGA	147.765	147.165	N PA
GREENWOOD/HODGES	KB4YF	144.53	145.13	
GREER	W4IQQ	146.34	146.94	N
GRNVLE/CSRS HD	W4NYK	146.01	146.61	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	PA
HILTON HEAD	KB4GY	147.84	147.24	P
INMAN	WD8OXE	144.87	145.47	
LANCASTER	W4PAX	146.10	146.70	
LANCASTER	WB4BGF	147.84	147.24	
LAURENS	KA4LBI	146.25	146.85	N A
LEXINGTON	WR4AGK	147.255	146.835	N NB
LEXINGTON	KA4FEC	147.99	147.39	
LITTLE MT.	K4AVU	147.81	147.21	
MARION	W4YLT	146.40	147.00	N EA
MYRTLE BEACH	WD4JMT	146.01	146.61	A
MYRTLE BEACH	WA4YGE	147.72	147.12	N
MYRTLE BEACH, N	WA4JYR	147.63	147.03	N PA
N. AUGUSTA	K4FKJ	146.13	146.73	
NEWBERRY	KB4CO	146.085	146.685	
ORANGEBURG	WR4AQY	147.69	147.09	N A
PICKENS	WB4YXZ	146.40	147.00	A
PROSPERITY	WB4OCB	147.84	147.24	
RCKY RD/WALLACE	KA4ABW	144.89	145.49	C
ROCK HILL	KA4RFA	144.71	145.31	N LPA
ROCK HILL	K4YTZ	146.325	146.925	PA
ROCK HILL	K4YTZ	146.43	147.03	PA
ROCKY SPUR	KS4I	147.885	147.285	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N
SIMPSONVILLE	WA4LDP	146.13	146.73	
SIMPSONVILLE	WA4SDT	147.75	147.15	N R
SPARTANBURG	WD8OXE	147.69	147.09	PA
SUMTER	WS4P	146.04	146.64	
SUMTER	WA4UMU	147.615	147.015	A
SUMTER	W4VFR	147.66	147.06	N
WHITE HALL	W4BWZ	146.31	146.91	

6 METERS

COPE	N4HSN	52.05	53.05	
PICKENS	WB4YXZ	52.41	53.41	C
PICKENS/CSRS HD	WB4QHF	52.525	RMT.BS	N CBR

220 MHZ

COLUMBIA	N4EOY	222.30	223.90	
COLUMBIA	N4EOY	223.30	224.90	RB
EASLEY/SASFRS MT	KJ4X	222.46	224.06	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	PA

440 MHZ

CAESARS HEAD	WB4LZQ	448.875	443.875	N
CHARLESTON	N4SC	449.10	444.509	N TNB
COLUMBIA	KC4YI	449.10	444.10	
ROCK HILL	KA4RFA	449.75	444.75	N LPA
SUMMERVILLE	WA4HNK	443.80	448.80	N NB

TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.135	147.735	D NB
ALTAMONT	WR4AWN	146.37	146.97	N
ATHENS	WB4GRC	144.71	145.31	N
BENTON	K4SIR	144.85	145.45	N
BESSEMER(ALA)	N4AHN	144.55	145.15	L
BIRMINGHAM(ALA)	WD*BXA	147.285	147.885	A NB
BLOUNTVILLE	WA4KMG	147.60	147.00	N
BRISTOL	K4ILW	146.07	146.67	A
BRISTOL	WD4CYZ	146.28	146.88	N
BRISTOL/HLSTN MT	WR4ADO	146.16	146.76	N
BROWNSVILLE	WA4ABU	146.655	146.055	N NB
CENTERVILLE	WB4PZB	147.915	147.315	N
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	PA
CHATTANOOGA	K4VCM	144.69	145.29	
CHATTANOOGA	W4AM	144.73	145.33	N
CHATTANOOGA	KB4TZ	144.79	145.39	A
CHATTANOOGA	K4CMY	146.01	146.61	
CHATTANOOGA	AD4F	146.10	146.70	
CHATTANOOGA	W4DSK	146.19	146.79	A
CHATTANOOGA-RTTY	K4CMY	144.53	145.13	N
CLARKSVILLE	W4AM	147.60	147.00	N
CLEVELAND	WD4DES	147.78	147.18	
COLUMBIA	WR4AIX	147.72	147.12	N
COOKEVILLE	WA4UCE	146.07	146.67	N A
COOKEVILLE	N4WS	147.81	147.21	
COVINGTON	WA4VXW	147.93	147.33	N
CROSSVILLE	KE4RX	146.04	146.64	N
CROSSVILLE	W4CV	147.93	147.33	N
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N
DECATUR-PONE KB	W4RJC	144.55	145.15	
DYERSBURG	AA4HF	146.145	146.745	N
FAYETTEVILLE	KO4G	146.265	146.865	N
FAYETTEVILLE	W4NIQ	147.63	147.03	N
FISHERVILLE	N4DRL	144.65	145.25	A
FRANKLIN	WB4HCK	144.55	145.15	N RB
FRAYSER	W4UFT	146.10	146.70	N
FRAYSER	W4ZJM	146.43	147.03	N
GALLATIN	W4NIT	147.84	147.24	N PA
GALLATIN	WA4YQC	147.87	147.27	PA
GALLATIN	WB4DLQ	147.99	147.39	N
GREENEVILLE	N4TV	144.65	145.25	
GREENEVILLE	WB4TUO	144.81	145.41	
GREENEVILLE	WA4LYF	147.66	147.06	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	L
HENDERSONVILLE	WB4WZK	146.115	146.715	
HENDERSONVILLE	WD4FFM	147.945	147.345	N
JACKSON	KF4SC	144.71	145.31	N
JACKSON	W4WKZ	147.81	147.21	N
JASPER	KA4LGN	144.59	145.19	N
JOHNSON CITY	WB4SQC	144.69	145.29	EA
JOHNSON CITY	WB4EHK	146.19	146.79	
JOHNSON CITY	KE4FH	147.87	147.27	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97	A
KNOXVILLE	WB4JSD	144.51	145.11	R
KNOXVILLE	K4KFD	144.61	145.21	N A
KNOXVILLE	WA4TEM	144.73	145.33	A
KNOXVILLE	WA4GZE	144.77	145.37	
KNOXVILLE	WB4GBI	144.83	145.43	
KNOXVILLE	WB4IOB	146.13	146.73	

KNOXVILLE	K4HXD	146.34	146.94		
KNOXVILLE	K4HXD	147.675	147.075		A
KNOXVILLE	W4BBB	147.90	147.30		
KNOXVILLE	WB4HAP	147.96	147.36		
KNXVL/HOUSE MT	WB4GBI	144.87	145.47		
LAFOLLETTE	KF4OK	144.53	145.13		
LAFOLLETTE/WMT	W4TZG	146.07	146.67		
LAKE CITY	WB4OAH	146.22	146.82	N	
LEBANON	KE4VZ	146.13	146.73		PA
LENOIR CITY	KE4SK	144.57	145.17		
LEXINGTON	WB4LGH	146.43	147.03	N	
MADISON	WB4NTM	146.04	146.64		EA
MANCHESTER	W4FOT	146.10	146.70	N	A
MARTIN	WA4ZQX	146.625	146.025	N	NB
MCMINNVILLE	WA4CPJ	144.63	145.23	N	A
MCMINVL/SHT MT	W4KKO	144.89	145.49		
MEDINA	K4BEZ	146.37	146.97	N	A
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	WB4MQD	145.33	PKET	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	WR4AOG	146.10	146.70	N	R
MEMPHIS	KA4JXT	146.13	146.73	N	
MEMPHIS	WR4ABS	146.19	147.51	N	NB
MEMPHIS	W4BS	146.22	146.82	N	
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	N	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	W4ZJM	147.63	147.03	N	L
MEMPHIS	WR4AWT	147.69	147.09	N	
MEMPHIS	WB4DAZ	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WR4AZC	147.87	147.27	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MEMPHIS	WR4ASR	147.99	147.39	N	
MIDDLEBRO(KY/TN)	W4PPM	144.63	145.23	N	
MORRISTOWN	WD4RTT	147.63	147.03		EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MT. JULIET	WB4DOR	144.79	145.39	N	
MURFREESBORO	WB4LHO	144.57	145.17		PA
NASHVILLE S.	WB4NTM	147.96	147.36		R
NASHVILLE S.W.	WB4NTM	146.07	146.67		EA
NASHVILLE	N4AJS	144.65	145.25		
NASHVILLE	KA4KNG	144.75	145.35	N	
NASHVILLE	WB4HTX	144.83	145.43		PA
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61		PA
NASHVILLE	WB4QES	146.16	146.76	N	
NASHVILLE	W4SQE	146.19	146.79		
NASHVILLE	N4TK	146.25	146.85		PA
NASHVILLE	WB4QES	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94		
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WD4FFM	147.705	147.105	N	
NASHVILLE	WA4PCD	147.75	147.15		
NASHVILLE	WA4PCD	147.78	147.18		
NASHVILLE	WB4ZSA	147.90	147.30		PA
NASHVILLE	N4AJS	147.93	147.33		
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12		L
OAK RIDGE	K4EAJ	147.75	147.15		R
PARIS	K4KLX	147.96	147.36		A
PULASKI	KA4CCL	146.775	146.175	N	NB
SAVANNAH	WB4DQU	146.31	146.91	N	
SEVIERVILLE	N4CJX	144.67	145.27		EAC
SHELBYVILLE	W4QEB	147.66	147.06		A
SHORT MTN	W4YXA	146.31	146.91		EA
SPARTA/BON AIR	W4BSA	147.69	147.09		A
STANTONVILLE	KA4OHC	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	N	
WAVERLY	NO4Q	146.685	146.085	N	NB
WINCHESTER	WR4AFH	146.22	146.82	N	
220 MHZ					
CHATT/SIGNAL MT	WA4ZOK	223.30	224.90		
CHATTANOOGA	K4VCM	223.18	224.78		A
CLARKSVILLE	KF4GP	222.34	223.94	N	
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98		PA
GREENEVILLE	WB4NKM	223.34	224.94		A
HERMITAGE	WB4RAB	222.30	223.90		
KNOXVILLE	WA4YON	222.86	224.46		
KNOXVILLE	W4BBB	222.90	224.50		
KNOXVILLE	KB4CTS	223.22	224.82	N	C
MEMPHIS	W4ZJM	222.34	223.94	N	L
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WR4	222.48	224.08	N	
NASHVILLE	N4AWB	222.62	224.22	N	
440 MHZ					
ALAMO	WB4EDS	448.75	443.75	N	L
CHATT/SIGNAL MT	WA4ZOK	439.25	427.25		V
CHATTANOOGA	WA4NFO	449.10	444.10		
FISHERVILLE	N4DDS	449.30	444.30	N	A
FRANKLIN	WB4EPG	447.80	442.80	N	
GALLATIN	WD4BKY	449.35	444.35		
GALLATIN	WD4KWP	449.45	444.45		PA
GATLBG/COVE MT	WA4KJH	448.30	443.30		L
GREENEVILLE	WB4NKM	449.65	444.65		
HOOVER(ALA)	K4FUM	449.30	444.30		NBA
KNOXVILLE	WB4HAP	447.50	442.50		
KNOXVILLE	K4HXD	449.30	444.30		
KNOXVILLE	KB4NK	449.60	444.60		
KNXVLE/HOUSE MT	WB4GBI	449.70	444.70		
MEDINA	K4BEZ	447.05	442.05	N	AL
MEMPHIS	WA4KOG	444.40	449.40	N	NB
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	W4ZJM	448.00	443.00	N	
MEMPHIS	WA4DOA	448.40	443.40	N	A
MEMPHIS	KA4JKT	449.50	444.50	N	A
MEMPHIS	WD4APK	449.80	444.80	N	
MILAN	WD4ABJ	449.55	444.55	N	
MORRISTOWN	KA4NEX	449.20	444.20	N	
NASHVILLE	WA4PCD	449.55	444.55		
NASHVILLE	WA4PCD	449.675	444.675		
NASHVILLE	N4TK	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40		L
PARIS/GROVE HL	WA4WKS	448.50	443.50		
10 METERS					
MEMPHIS	W4ZJM	29.52	29.62	N	
6 METERS					
CHATTANOOGA	WB4LRD	52.01	53.01		
KNOXVILLE	WB4IOB	52.15	53.15		A
KNOXVILLE	WA4YON	52.25	53.25		L
KNOXVILLE	WB4GBI	52.35	53.35		C
KNOXVILLE	K4HXD	52.76	52.525		NB
MEMPHIS	WA4KOG	52.01	53.01	N	

The CVRA-SERA Repeater Index Has Been Corrected Through July 16th of all changes and Full Memberships Possible.

GEORGIA REPEATERS

2-METERS				
ADAIRSVILLE	WB4LRA	146.085	146.685	
ALBANY	WR4ADM	146.10	146.70	

ALBANY	W4MM	146.13	146.73	
ALBANY	WR4ANB	146.22	146.82	
AMERICUS	WR4AQH	147.87	147.27	
ASHBURN	WA4NTF	144.63	145.23	
ASHBURN	K4QT	147.285	147.885	NB
ATHENS	WA4BKF	146.13	146.73	
ATHENS*	K4TQU	147.375	147.975	NB
ATLANTA	NC4E	144.69	145.29	
ATLANTA	WB4LBM	144.71	145.31	
ATLANTA	W4BOC	144.85	145.45	
ATLANTA	WR4ABE	146.04	146.64	T
ATLANTA	W4DOC	146.22	146.82	
ATLANTA	WR4ABC	146.37	146.97	
ATLANTA	WR4ARK	146.40	147.00	PA
ATLANTA	K4SMX	147.795	147.195	
ATLANTA	W4LUZ	147.855	147.255	
ATLANTA/BELL*	W4PME	144.81	145.41	
ATLANTA/GA TECH*	W4AQL	144.55	145.15	
AUGUSTA*	K4VF	146.34	146.94	
AUGUSTA*	W4ALK	147.72	147.12	A
AUGUSTA*	N4BMA	147.78	147.18	R
AUGUSTA*	W4LWT	147.915	147.315	
BALDWIN	WD4NHW	147.78	147.18	
BLAIRSVILLE	WA4EZN	147.70	147.10	NB
BRUNSWICK	K4TVE	146.13	146.73	
BUFORD	WD4JXR	147.075	147.675	PNB
BUFORD	WD4JXR	147.87	147.27	
CANTON	KE4PN	144.67	145.27	
CARROLLTON	W4FWD	146.04	146.64	
CEDARTOWN	W4CMA	147.72	147.12	
CLEVELAND	K4FOW	144.69	145.29	
CLEVELAND	K4FOW	147.015	147.615	NB
CLOUDLAND	N4AHE	147.225	147.825	NB
COHUTTA-RTTY	W4KAU	146.46	147.06	R
COLUMBUS	WA4QHN	146.01	146.61	
COLUMBUS	N4RJZ	146.28	146.88	
CONYERS	WB4SLZ	147.21	147.81	NB
COVINGTON	WA4ASI	146.925	146.325	NB
CUMMING	K4BYK	147.75	147.15	PA
DALLAS	K4DVJ	146.25	146.85	
DALTON*	KE4LN	147.81	147.21	
DALTON*	N4BZJ	144.65	145.25	
DALTON*	KC4TT	147.315	147.915	NB
DALTON*	N4RZJ	147.735	147.135	
DECATUR*	W4VTA	144.51	145.11	EA
DECATUR*	N4AQV	146.205	146.805	
DOUGLASVILLE	KB4EO	147.96	147.36	
DUBLIN	WA4HZX	147.96	147.36	
FAYETTEVILLE	K4UWN	146.685	146.085	NB
FOLKSTON	K4DMK	146.19	146.79	
FOREST PARK	K4KQK	144.65	145.25	
FORSYTH	WR4AQA	147.315	147.915	NB
GAINESVILLE	WD4IWJ	146.31	146.91	
GAINESVILLE*	W4NSO	146.07	146.67	A
GRIFFIN	WR4AIV	146.31	146.91	
GRIFFIN	WR4AEA	146.43	147.43	NB
GRIFFIN*	WB4GWA	144.79	145.39	PA
HAMILTON	WB4ULJ	144.59	145.19	
HAMILTON	N4GDG	146.835	146.235	NB
HAMILTON-RTTY	K4ACH	144.77	145.37	
HAMPTON	WA4DIW	144.57	145.17	
HAPEVILLE	WR4ABN	147.63	146.03	
HARTWELL*	KY4T	146.895	146.295	ANB
IRWINTON	WB4NFG	147.84	147.24	
JASPER	W4OOM	146.10	146.70	
JESUP	WA4EQL	146.07	146.67	
JONESBORO	WA4DIW	144.57	145.17	
JONESBORO	WA4OGE	144.73	145.33	
KENNESAW	WB4UPC	144.83	145.43	
LAGRANGE	WR4	146.40	147.00	
LAGRANGE	WB4BXO	147.93	147.33	
LYONS	K4HAO	146.22	146.82	
MACON	W4BKM	146.06	146.66	NB
MACON	K4ICT	147.66	147.06	T
MARIETTA	WB4KJB	146.13	146.73	
MARIETTA	W4BTI	146.28	146.88	
MARTINEZ	WB4YHT	144.89	145.49	
MARTINEZ*	N4JA	144.77	145.37	C
METTER	W4TYM	147.645	147.045	
MILLEDGEVILLE	KA4WDF	144.51	145.11	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	
MOULTRIE	WD4KOW	146.19	146.79	
NEWNAN*	K4SEX	144.53	145.13	PA
NEWNAN*	K4SEX	146.19	146.79	
PRESTON	W4TOV	146.385	146.985	
QUITMAN	WA4NKL	146.28	146.88	
RINGGOLD	WR4ABZ	146.115	146.715	
RIVERDALE	WA4EPK	144.61	145.21	
ROME	W4VO	146.34	146.94	
ROME	K4HNM	147.30	147.90	NB
ROSSVILLE*	KC4EV	144.75	145.35	
ROSWELL	N4CLA	144.87	145.47	
SANDY SPRINGS	WB4CPL	144.75	145.35	
SAVANNAH	K4NLX	144.63	145.23	
SAVANNAH	K4NLX	146.10	146.70	PA
SAVANNAH*	W4HBB	146.28	146.88	
SAVANNAH*	W4HBB	146.37	146.97	A
SMYRNA	WA4YUR	144.61	145.21	
STATESBORO	K4MEF	147.81	147.21	
STONE MTN	W4BOC	146.16	146.76	
SVR CRK/MT ALTO	K4HNM	147.90	147.30	
SWAINSBORO	K4VYX	146.19	146.79	
THOMASTON	K4IMK	147.99	147.39	
THOMASVILLE	K4UFM	147.66	147.06	
TOCCOA*	KA4DIP	147.93	147.33	PA
VALDOSTA	W4APS	146.16	146.76	
VALDOSTA	WA4SMH	147.135	147.735	NB
VIENNA	WA4RWS	144.89	145.49	
WARNER ROBINS	WB4BDP	146.01	146.61	
WARNER ROBINS	W4HON	146.25	146.85	A
WARNER ROBINS	W4MST	147.015	147.615	RNB
WAYCROSS	WR4AMK	146.04	146.64	
WRENS*	N4JAP	144.77	145.37	P
WRIGHTSVILLE	WA4RVB	146.34	146.94	

220 MHZ

ATLANTA	KK4C	223.22	224.82	PA
CANTON	WB4UPC	222.34	223.94	
CANTON	WB4UPC	223.06	224.66	
KENNESAW	WB4UPC	222.52	224.12	
KENNESAW	WB4UPC	223.34	224.94	
ROSSVILLE*	KC4EV	223.34	224.94	

440 MHZ

ALBANY	WA4GKI	439.25	427.25	V
ATLANTA	N4WQW	449.625	444.625	A
BUCKHEAD	WA4YNZ	449.975	444.975	T
COLUMBUS	WA4QHN	449.20	444.20	
KENNESAW	WB4UWL	449.50	444.50	
RIVERDALE	WA4EPK	449.55	444.55	
STONE MTN	W4BOC	449.25	444.25	

10-METERS

ATLANTA*	KE4IO	29.52	29.62	

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	WR4ACQ	146.34	146.94	
DAMRON MTN*	K4BGQ	147.87	146.27	
ELKHORN CITY	WB4WAU	147.60	147.00	EAO
GUTHRIE	KA4NNE	146.13	146.73	
HAZARD	K4VHF	146.07	146.67	
JENKINS	WD4PDJ	147.99	147.39	
LOUISA*	WA4SWF	146.13	146.73	
LYNCH/BLACK MT*	N4IZD	147.945	147.345	
MOREHEAD	K4GFY	146.31	146.91	
PIKEVILLE*	N4ETG	146.19	146.79	
PIKEVILLE*	N4IXA	146.25	146.85	A
PRESTONSBURG*	K4ICN	144.69	145.29	

440 MHZ

LYNCH/BLACK MT*	N4IZD	448.10	443.10	

*** CVRA-SERA Full Member Repeater**

The Mark 4 Amateur Radio Club Cordially Invites You To- The 4th Annual 1984 Greater Greensboro N.C. Hamfest

ARRL SANCTIONED HAMFEST

DATE: November 24 + 25
HOURS: 9:00 A.M. — 5:00 P.M.
LOCATION: National Guard Armory-Franklin Blvd.
GRAND PRIZE: Yaesu FT 757GX + FP 757GX Power Supply
2nd Prize: 20 AMP Astron Power Supply
Pre-Reg.: Yaesu 208R 2-Meter FM Handheld
★: Many Other Valuable Prizes To Be Given Hourly.
PRE-REGISTRATION: $3.50 For Advance Tickets
REGISTRATION: $5.00 At The Gate
FLEA MARKET: Price Of Ticket (Outside)
INSIDE: Price Of Ticket + $9.00 (per table) Rental

TALK IN: 145.250 (—.600) — 146.835 (+.600) — 146.520—Simplex

—Dealers & Flea Market—

For Booth + Table Reservations — Floor Plan — Cost + Motel Accomodations.

Write or Call: Coy Hennis (WD4NHL)
Rt. 7 Box 729
Greensboro, N.C. 27407
Phone- (919)-294-2841
Call Between 8:00 A.M. — 9:30 A.M.

For Pre-Registration Tickets ONLY.

Write: Fred Redmon (N4GGD)
2305 Sherwood St.
Greensboro, N.C. 27403

For Tickets, Booths, and Tables — **(WD4NHL).** For **TICKETS ONLY — (N4GGD).**

Pre-Registration Form

Please Pre-Register me for the Greensboro Hamfest, November 24-25.
Enclosed is my check for: ★ *Please Send S.A.S.E. - TNX*

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WEST VIRGINIA NOTES

By: Ted Wolfe, WD4KHL

The KFCARA'S Kingston/Lick Knob W8FG 144.87/145.47 repeater was off the air during May due to damage caused during an electrical storm. Upon return to the mountain ouput power was down, indicating further maintenance would be required.

• • •

Don Williams, WA4K, Bluefield, Va, reports three lightning strikes knocked the East River ARC's club repeater off the air as many times this spring. Fortunately it was not extensively damaged, although it had to operate for a time with an output of only 10 to 12 watts. By this time it should be back to its full 100 watts ERP. The W8MOP repeater (144.80/145.49) is on East River Mountain.

• • •

The ERARC is now an ARRL Special Service Club. The club's annual hamfest will be held at the Brushfork Armory, same as last year. The date and hours are Sun., Aug. 26, 9:00 a.m. till 3:00 p.m.

• • •

The Jackson County ARC hamfest at Ripley will be held on Sat., Sept. 8. I don't recall seeing a flyer giving the time or location.

• • •

The June 3 hamfest in Huntington this year returned to its former site, the Camden Park amusement center, after moving about to other locations the past two years. I monitored many comments about the lack of amateur equipment dealers and the poor turnout with many wondering if sponsors made back their expenses.

I hope Huntington can hang on and improve its event.

• • •

Beckley area hams report that Dennis Jennings, KD8X, now has his M-S-O on the Beckley/Flat Top Mountain K8BO (146.25/85) repeater. Some Virginia hams have begun to check into the radioteletype MSO.

• • •

Dale Warrick, formerly KA8EMX, Fayetteville, recently upgraded and received a new call. He is now N8FRV. The call is being put on the Beckley/EOC (Emergency Operations Center) 449.80/444.80 Mhz repeater. Please note that the repeater is not, repeat NOT, Kingston/Lick Knob as listed in the may Journal. It is in downtown Beckley now and has been for some time.

• • •

Another listing that needs to be changed is the one for Spencer, WV. I asked Jerry, KA8RGQ, who can work into the area on 2-meters, to check for me and he reported back that the Spencer machine on 146.01/61 now carries the call of Stephen T. Hughes, 104 Elm Street, Spencer, 25276. That call is KA8AUW.

• • •

Okla D. Walker, WD8BRD, Belle, died of an apparent heart attack at home in bed on Sun. April 15, at the age of 55. O. D. was a member of nearly every amateur club in the area and had been taking flying instruction with Joe Bean, KA8TBQ, Belle, preparatory to getting his private pilot's license. When he died the Navy veteran was Commander of the American Legion post in his home town.

• • •

Leon Moten, WD8POF, and his wife, Carol, WD8RCV, Jumping Branch, flew to Holy Loch, Scotland, early in June to be with their seriously ill daughter who is married to a serviceman stationed aboard a Navy submarine based at Holy Loch.

• • •

Former West Virginia hams now living in other locales who returned for visits during June and talked with old friends on area repeaters included Leo Harmon, WB8DRO, Lake Helen, Fl, formerly of Charleston; and Shirley White, KD4HB, Ridge Spring, SC, formerly of Cabin Creek prior to his military service. Shirl was in just before his brother, Garry, WD8OMB, Scott Depot, departed for vacation along the eastern seaboard. Other hams in the White family are Shirl's son, Mark, a teenager who has a Novice license with the KD4HYN call, and Garry's wife, Sharon, also a Novice with the call WD8OLI.

• • •

By the time you are reading this the Layland/Mann Mt N8BZS (144.71/145.31) repeater should be equipped with new duplexers ordered in June to replace the original ones which were not designed for the subband. Garry Holt, N8BZS, said of late the old ones became difficult to keep properly tuned.

Continued on Page 31

Bluefield Hamfest

Computer and Satellite TV Fair

August 26, 1984

9 AM UNTIL 3 PM

EAST RIVER AMATEUR RADIO CLUB, INC.

Dear Friends:

The Bluefield Hamfest is approaching the end of its third decade of serving amateurs in a five state area. We are proud of our beginnings in the 1950's and feel that our record of continuous hamfests speaks for itself as a tribute to our success in making Bluefield a hamfest for all hams.

This year we will continue to include computers and satellite TV among our complement of dealers attending. Of course, we'll still have our fine amateur radio dealers and others selling everything from souvenir caps and tee shirts to name tags. Our flea market will be inside.

Great prizes will be the rule as always, and we hope you'll be pleased with the fine array of small prizes which we plan to give away.

Paved parking, food on site, and other activities will be provided. Talkin is on W8MOP repeater, 144.89/145.49, and on 146.52 simplex. The hamfest is at the Brushfork National Guard Armory, 1 mile north of Bluefield on US 52, for the fifth consecutive year.

We're also proud to be an ARRL Approved Hamfest. So y'all come! Admission is only $3.00, and that includes one prize ticket (additional tickets can be purchased at the door). Children under 12 free. Hope to see you there!

Don Williams, WA4K

West Virginia Notes & News

Continued

Thanks again to TSRAC's newsletter "B-N-T", I can pass along some news from the northern part of the Mountain State. The Dayton, Ohio, Amateur Radio Association (DARA) is the VEC for the 8th call area. DARA sponsored a meeting in Morgantown June 9 to explain the Association's Volunteer Examiner program and to certify a number of hams to be volunteer examiners.

• • •

At that meeting, held on the West Virginia University campus, the TSRAC headquarters group qualified three two-man V-E teams.

• • •

In addition, several TSRAC members who are also members of the Steubenville-Weirton ARC were accredited. The two clubs (TSRAC and SWARC) plan to coordinate their examination schedules to eliminate conflicts and to afford area amateurs more opportunities to upgrade.

• • •

TSRAC graduated its 25th Novice class at Belmont Career School, St. Clairsville, Oh, on Monday night, June 4. Twenty-seven of the approximately 35 who attended qualified for licenses with two others still to take the exam at the time the story was written. The youngest newly licensed ham was 8-years old. Ten of the graduates were YL's. Sounds like TSRAC is doing a bang up job with its instructional program.

• • •

The extra copies of the May **Journal** that I receive as a Director came in handy. I was able to send a couple along to ham groups in other states who had written to enquire about our coordination policies and bandplans. One request came from the Honeywell Amateur Radio Club in Minneapolis. You should hang onto a copy of your May **Journal** for easy reference since that information is included in that issue.

• • •

The deadline for submitting this copy for the August **Journal** came soon after Field Day weekend but I did gather some info to pass along about several West Virginia clubs and their activity.

The East River ARC at Bluefield operated from near the old tourist Craft Shop beside U. S. 52 atop the East River Mountain overlooking Bluefield. Mark Williams, N4HYN, who will be a High School junior in the fall, was Field Day chairman. Twenty-five hams participated, five of

Continued on Page 32

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DEADLINES: New advertising copy or ad changes must be in the hands of our Advertising Manager no later than the 20th of the month on the 2nd month prior to publication. We cannot guarantee insertion of ads after deadline, although every effort will be made to accomodate.

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Sizes listed above are width by length in that order. Ads which run lengths between sizes listed above will be billed according to column inch rate at midpoint. Prices above are for exact size, camera ready positive photoprint, or pasteup. Camera work, typesetting additional. No charge for layout.

Repeater Journal Readers are faithful to Repeater Journal Advertisers. Your advertising in the Repeater Journal reaches almost 4,000 members in a 5-state area

West Virginia Notes & News

Continued from Page 31

them operating overnight. The Bluefield **Daily Telegraph** sent a photographer out Saturday and a story appeared with photos in the paper's Sunday edition.

• • •

Bill Cowell, WB8YJJ, Fenwick, reported the Nicholas County ARC operated Field Day with Jim Dixon's W8IV call from Summit Lake east of Richwood. The ten operators made over 700 contacts. The Nicholas County club makes Field Day a family outing. Most of the hams were accompanied during the overnight exercise by their wives and children on a campout excursion.

• • •

The Tri-County ARC is another group that makes Field Day a social event. The St. Albans area group set up at Cato Park in Charleston and from 15 to 20 operators took part in the exercise. The number dwindled to only three or four operators during the wee hours of the morning. Jack Bird, WD8QOL, St. Albans, said it was typical that "when the hamburgers go on the grill, operators on the radios call for a 'time out.'"

• • •

The Kanawha amateur Radio Club operated on all the low bands from their site at South Charleston's Little Creek Park. Around 16 hams acted as operators, according to Bill Hunter, K8BS, Charleston. But Bill said up to 40 hams visited the site at various times during the 24-hour period.

• • •

The Putnam Amateur Radio Association operated from the Putnam Village Shopping Center and reported a lot of visitors who showed up to watch and ask questions.

• • •

Charlie Marlowe, WB8CNN, MacArthur, said about 16 hams from the Beckley area acting as an independent group rather than as a club staged their Field Day on Flat Top Mountain operating with Bill Ormandy's K8BO call from three operating positions. He said they had some rain but an enjoyable fun time. Charlie said another independent group operated from Bolt Mountain but he could provide no details and I didn't have time to try to follow up with other hams who might have been with the Bolt Mountain group.

Stubby *by Fred Hurteau, WD4SKH*

(COUGH-COUGH) I WISH HE WOULDN'T DRAG ME OFF TO THESE (COUGH) CLUB MEETINGS. I'D RATHER STAY HOME WITH THE SPIDERS AND (COUGH) COBWEBS.

What Other Repeaters Are Doing! A 1976 Repeater Operating Policy

(Editor's Note – While looking through boxes of old paperwork, which I have tons of, I came upon this nice little Operating Policy of the Frederick, Md., WR4ABL 13-73 repeater. Although many things have changed in the past eight years on repeaters and users, this simple request of the club still makes sense.)

FREDERICK 13/73 OPERATING POLICY

1. The obvious purpose of any repeater is to facilitate contacts which are not otherwise possible. For this reason it should be used as a calling frequency with an immediate QSY to a simplex frequency when possible.

2. One purpose of a repeater timer (ours allows a liberal 2½ minutes) is to keep transmissions reasonable brief. Resetting repeatedly in mid-transmission defeats this purpose, is unfair, and could delay an emergency call-in.

3. The repeater hang-in is long, allowing leisurely return to the station(s) with whom you are talking. Tailgating is unnecessary and unfair.

4. Recognize a breaking station and permit him to make his need or desire known IMMEDIATELY.

5. Use your call letters to break into a QSO. By strict interpretation of the rules "break" is an unidentified initial transmission and therefore illegal. Reserve the use of "break" or "break-break" for priority or actual emergency calling.

6. Although a breaker is not at liberty to initiate a non-essential QSO independent of those already on frequency, traffic of ANY nature pre-empts routine conversation in progress and the frequency should be relinquished to the station with traffic.

7. "CQ" is the generally accepted method of initiating a QSO on all amateur bands. "QRZ" means "what station is calling me?", and the statement that you are "Monitoring 13/73" is, by strict definition, illegal. It is a one way transmission.

8. Repeater DX-ing is not illegal but careful consideration should be given to the time of day and the length of time two or more repeaters are tied up. Talking to a neighbor through a repeater 50 miles away should be avoided when ever possible.

9. Activity on a repeater is a healthy indication but monopolization should be avoided. Even though breakers are welcomed to your QSO, remember that there may be someone waiting to initiate another QSO with someone not already on frequency. They may not wish to join a round-table group.

10. Be cordial, helpful and courteous to transient amateurs. Remember that you represent the entire repeater group when you are on the air. Friendly treatment received when you are a guest on other repeaters when you travel leaves a nice impression and pleasant memories.

11. Short rag-chews are fine during other than peak activity hours, but it should be kept in mind that if a repeater with only 100 members ran 24 hours a day allowed no non-member use, the fairly apportioned transmit time for each individual would be about 14½ minutes.

12. Flowery identification wastes repeater time. FCC rules require only your station call, and that only once every 10 minutes during a QSO. The inclusion of the call of the station to whom you are passing it, the other stations on frequency, and those recently signed out is unnecessary.

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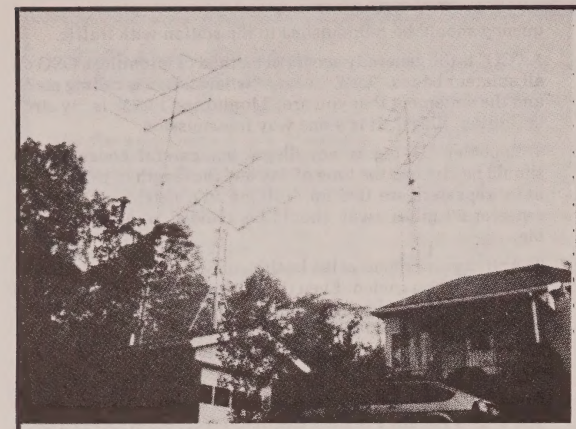
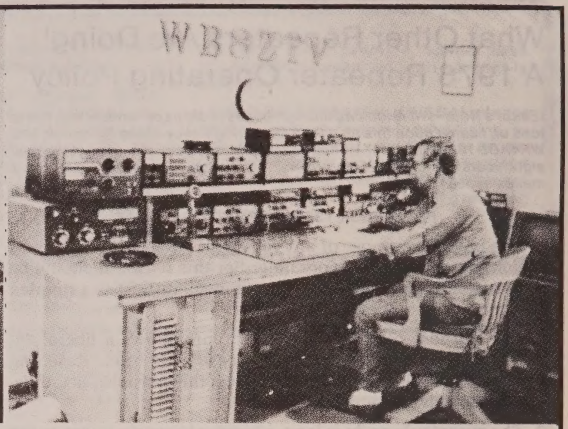


GATEWAY SYSTEM antenna array at the home of Don Knollinger, WB8ZTV of Moundsville, WV. This unique system utilizing uplink and downlinks from OSCAR 10 and local 2-meter repeaters made possible cross country contacts on 2-meter FM. (Photo ctsy TSRAC-



SATELLITE operating station of WB8ZTV in Moundsville, WV. Don Knollinger with help of TSRAC club members built the "gateway system" allowing handheld contacts between West Virginia and California on 2-meter FM. (Photo Ctsy. TSRAC-BNT)

Historical 2-Meter FM Contact From West Va

–Ctsy TSRAC-BNT, Ralph McDonough, Editor

In late May, history was made with the first low-power 2-meter FM contact across the country. Jay Paulovicks, KD8GL of Sherrard, WV, running 300 milliwatts on his H/T, made contact with Karen Henderson, KB6DQQ of Los Angeles, Ca. operating with a 1-watt H/T.

This amazing feat was accomplished through a "gateway system" devised and built by members of the Triple States ARC. Simply stated, the gateway system was a feed through the local 2-meter repeater — into a satellite 435 mHz uplink system to OSCAR 10 — downlink to another Satellite station in California, into a Los Angeles 2-meter repeater. Return uplinks and downlinks were done the same way (two basic systems on each end).

Members of TSRAC had worked frantically the last days to get the system ready for the planned date. After three final days of testing, the system was proclaimed ready to go. After the initial contacts, other repeaters and stations were hooked into the gateway system including a system in Lake Havasu City, Arizona.

On the Arizona system, the first lady to lady contacts were made as Faith Tabeling, N8EQO, Glen Easton, WV, contacted Ruth Spreng, WA6ZVN in Arizona.

The original idea of the "gateway system" came about when Don Knollinger, WB8ZTV of Moundsville became aware of a proposed plan by AMSAT to hook up short range repeaters to the transponder of OSCAR 10 for long range communications. After going to a seminar in Maryland last Spring, Don returned and consulted with members of the club and the decision was made to build such a system and have it operational by Memorial Day weekend. It was a hectic time with midnight oil burning many nights and down the wire, complex systems became more refined as tests proved successful. Finally the refined "gateway system" was ready to go, on time and then the fun began.

Southern WV Club Elections

Several amateur radio clubs in Southern West Virginia recently held elections to select officers to serve during 1984-85. On May 11 the Putnam Amateur Radio Association (PARC) elected the following: Jerry Sizemore, WD8SEN, President; Tom Miller, WB8ICT, Vice President; Tom McClellan, WB8MOX, Secretary; Henry Edwards, K8YNI, Treasurer; and Henry Danner, K8WOG, Garry White, WD8OMB, Mike Herod, N8BHP, Don Craig, KA8KVD, and Bob Schoolcraft, WD8BCY, all as Directors.

PARA sponsors the K8SLI 147.87/27 Scott Depot repeater.

The Jackson County ARC in Ripley in May elected Clark Stewart, W8TN, President; Greg Parsons, KC8VW, First V-P; Jim Bartlett, WD8AYN, Second V-P; Bob Morris, WA8CTO, Secretary-Treasurer; and Bud Wolfe (no relation), WD8AYM, to the dual posts of Activities Manager and Technical Coordinator. W8TN is the West Virginia coordinator for AMSAT and WA8CTO is editor of the club's award-winning newsletter.

New officers taking office July 5 for the Kanawha-Fayette-Clay Amateur Radio Association at Pratt were: W. L. (Tootie) Wood, KD8DI, President; Frank Rogers, WD8OVZ, Vice President; Martha Oliver, WB8SZD, Secretary-Treasurer; Dale Grimmett, K8KW, Publicity Director; and Bud Morris, WA8CML, Program Director.

CRYSTALS

TWO METER CRYSTALS—30 kHz. standard band plan & 15 kHz. splits. Lo-in/Hi out on 146 mHz. and Hi-in/Lo-out on 147. Sub band, 20 kHz. plan from 144.51-145.11 (Lo-in/Hi-out). Most standard simplex 146-147 pairs. ALL others special order, same price!

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Two Meter or 220 Mhz. Crystals Only. For Most Standard Amateur-Built Radios. We cannot supply any other type crystals.

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- ICOM - IC21, 21A,22,22A,215
- DRAKE - TR22,22C (No Sub Band), 33C,72
- KENWOOD - TR220, 7200
- MIDLAND - 13-500, 13-505, 13-520
- REGENCY - HRT-2, HR2,2A,2B,212,312 (No Sub Band)
- HEATH - HW-2021 ONLY
- TEMPO - FMH,FMH-2,FMH-5 ONLY
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CATV Leakage Problems Information Sheets Available Free

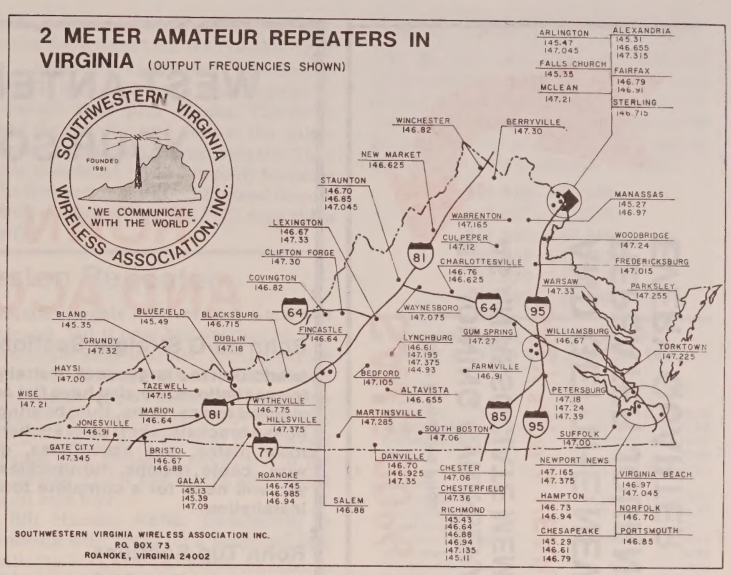
The FCC has released several check sheets written by CATV technicians who are trained to detect and correct cable leakage problems. These sheets which go into detail of how to remedy CATV leakage and interference problems may be reprinted by permission of the CATV company whose engineers designed the sheets.

The FCC from its Norfolk office has made a copy of these check sheets to the CVRA-SERA Repeater Journal staff.

If you would like a copy of this information, (5-pages) send a S.A.S.E. (20¢ postage affixed) to Wayne C. Williams, Editor, 600 Lakedale Road, Colfax, N.C. 27235. We'll be glad to xerox you copies and return them to you.

Round Table Radio Glossary

ANTENNA. A length of wire or aluminum tubing cut just too short to resonate at Amateur frequencies.



A copy of the handsomely printed 2-meter repeater map of Virginia. The map was designed by David Jones, N4JED and printed and distributed by the Southwestern Virginia Wireless Association, Inc. Free copies may be obtained by writing SVWA, P.O. Box 73, Roanoke, Va. 24002. Enclose S.A.S.E.

REPEATER-CLUB-NET SERVICE PAGE

The ENC Repeater, Inc. Invites You to Switch to 146.685 as You travel East of Raleigh Reptr. Located on 2,000 ft. tower near Grifton, North Carolina.

Jo Ann Taylor, Sec. Rt. 1, Box 80-36 Swansboro, N.C. 28584

CLUBS, REPEATER OWNERS, NET MANAGERS PROMOTE YOUR ACTIVITIES ON THIS PAGE. – 4-Issues $14.00 A YEAR PREPAID
WRITE OUR SALES MANAGER (1-Year–$14.00 Minimum Contract)

DIAL **BR549**
(BLUEFIELD REPEATER 145.49)
Bluefield Hamfest
Computer and Satellite TV Fair
(AUGUST 26, 1984)

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147.39 Petersburg
144.850 Petersburg
The KI4RO Repeaters
Covering Central And Southside VA.
*****
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Petersburg KI4RO

Serving The Entire Outer Banks of North Carolina
KE4PB/Repeater
146.235 – 146.835
Nags Head/Bodie Island

Serving Eastern North Carolina
From the Capital
To The Coast
145.35 147.09
Repeaters
Greenville, N.C.

We're REACHING Out!
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WEDNESDAY NIGHTS
8:30
Checkin times 8:15
On the PCRN NC Link
28-88 Raleigh, N.C.
83-43 Green Mt., N.C.
53-13 Lookout Mt., Va.
77-37 N. Wilkesboro, N.C.
04-64 Winston-Salem, N.C.
855-255 Asheboro, N.C.
75-35 Greenville, N.C.
22-82 Wilmington, N.C.
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(Spon. by CVRA-SERA & in conjunction with the Piedmont Coastal Repeater Network)

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Richmond
K4OJE N4EXQ N4EPO
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ROHN TOWERS AND ACCESSORIES

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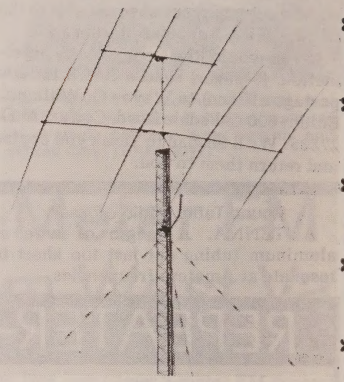
In addition to a large stock of straight tower sections, we also have flat and sleeved top sections, trust bearings, house brackets, short base sections, rotor plates, guy assemblies, guy wire, cable clamps, turnbuckles – you will need for a complete tower installation.



Rohn Top Sections

If you have a Rohn 25-G tower at the height you want, and need the top section, we have in stock the BAS-25-G cap section. Has flat top, drilled for TB-3 bearing and a welded-in rotor plate. Length 20-inches.

Other Tower Accessories

Aluminum mast pipes, feature 2-inch OD 6061 tubing with 1/4-inch wall.

12-foot lengths, 19 lbs – IN Stock
24-foot lenghts, 38 lbs – Spec. Order

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Large 20-oz. Industrial spray can...$5.10

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Stainless steel strapping kits, for strapping hard line or multiple runs of Coax. Kits come with 25, 50 or 100-feet of stainless steel strapping and buckles.

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100-foot strapping kit..... $36.00

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West Antenna Service can also supply 1/2 and 7/8-inch hard line in aluminum or copper. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately 10 days.

Utility Poles & Hardware

We have a limited variety of utility pole hardware and can supply utility poles in the Greensboro, N.C. area. Call us if you have a problem we can design a system for you.

Answer your tower problems

If you hit a snag in designing your tower system and need help, we may be able to assist you. We have a large variety of parts, accessories for towers, utility poles and just about anything you can think of to complete the most complex antenna system on a tower.

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Address _____ Date _____

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Enclosed is $ _____ for _____ Year(s) Mail Appl. & Fee To:

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New Member _____ Renewal _____

CVRA-SERA Assoc. Membership
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Greensboro, N.C. 27435

RJ0884

W5YI-VEC

Continued From Page 6

from such educators and publishers as the ARRL, AMECO, West Radio School, Bash Educational Services, Wayne Green bookstore and others. My VEC proposal went to the FCC during late May.

The Commission accepted the proposal as written on June 8th and a Memorandum of Agreement (MOA) was jointed signed by myself and Edward J. Mikel, FCC Managing Director. The MOA designated THE W5YI REPORT as a Volunteer-Examiner Coordinator (VEC) in all 13 call sign regions (1 through zero) plus Alaska, Carribean and the Pacific, and defines the guidelines under which it must operate. Thus this newsletter (W5YI Report) becomes the first national VEC – (if indeed there is such a thing which the FCC says there isn't.)

Improvements For Charleston Repeater

–by Ted Wolfe, WD4KHL

Johnny Jones, WB8CQV, Charleston, owner of the 146.28/88 repeater in Charleston is upgrading his system with the addition of a General Electric voting panel, an item widely used in commercial installations but not so much by amateurs.

The panel determines which signal coming in from several satellite receiver sites is best and then repeats that one over the transmitter. The device has provision for up to six receivers.

The machine retains its original Coal Branch Heights receiver near Kanawha Airport, but it now has another on Bee Mountain near Marmet. Johnny says a third should be operational soon in South Charleston with a fourth still later somewhere on Coal Mountain near St. Albans. Jones says his goal is to have a system that amateurs anywhere in the Kanawha Valley can access with only a hand held unit.

Bill Hunter, K8BS, Charleston, is working with Jones on a proposed link with the W8KMN 147.66/06 repeater in Point Pleasant.

Late Check!!

We checked with ARRL Friday afternoon, July 20th, just before we carried the Journal to the printer, and word from Chris Imlay, General Council for ARRL, the VEC papers had not yet been signed. He had reported to headquarters that everything looked ok. It was hoped the ARRL VEC papers would be signed at the ARRL National Convention in New York, Saturday, July 21.

Tri-Cities Hamfest

The Fourth Annual Tri-Cities Hamfest will be held on Saturday, October 20, 1984, at the Appalachian Fairgrounds, Gray, TN. The site is located five miles South of I-81 on Highway 23. Features include flea market, forums, dealers, & RV hookups. Talk-in on 146.37/97 & 147.87/27. Registration fee is $2.00. Prizes awarded. For further information write: Tri-Cities Hamfest, P.O. Box 3648 CRS, Johnson City, TN. 37601.

Band Plan Correction

In the May issue Page 30, listing the CVRA-SERA 2-meter band plan, a small cluster of repeater frequencies was accidently overlooked during pasteup of the Journal. Please add the following frequencies to your band plan records:

147.810 - 147.210
147.825 - 147.225
147.840 - 147.240
147.855 - 147.255
147.870 - 147.270
147.885 - 147.285

FINANCIAL REPORT AS OF JUNE 30, 1984 AND JUNE 30, 1983

	1984	1983
REVENUES		
Advertising	$3,518.00	$ 3,646.50
Associate Membership dues	4,613.00	5,377.00
Full Membership dues	1,374.00	1,845.00
Other	29.75	13.50
	$9,534.75	$10,882.00
EXPENSES		
Journal mailing	$1,223.85	$ 1,360.24
Journal printing	7,918.75	7,240.31
Miscellaneous	2.35	–0–
Directors meetings	534.19	388.01
Office expenses	8.67	75.48
Postage-other than journal	69.12	70.40
Printing-other than journal	62.80	341.76
Telephone	129.66	226.88
	$9,949.39	$ 9,703.08
EXCESS (DEFICIT) OF REVENUES TO EXPENSES	($ 414.64)	$ 1,178.92
Balances, beginning of year		
Expenses advanced	$ 800.00	$ 700.00
Invested in copy machine	1,792.00	2,240.00
Cash in bank	2,507.39	1,135.60
	$5,099.39	$ 4,075.60
EQUITY TO ACCOUNT FOR	$4,684.75	$ 5,254.52
Less: Expenses advanced	$ 900.00	$ 800.00
Invested in copy machine	1,792.00	2,240.00
	$2,692.00	$ 3,040.00
CASH IN BANK	$1,992.75	$ 2,214.52

Respectfully submitted Raymond K. Adams, N4BAQ, Treasurer

Full Membership Reaches New All-Time High in CVRA-SERA

–by Gerry Butts, Full Mbrship Chrmn

For the first time in its history, CVRA-SERA has reached the peak of 300 Full memberships. On July 1st, the total membership applications reached 301. These 301 memberships represent a total of 369 repeaters in the five districts, and outlying states of Georgia, Alabama and E. Kentucky.

Full membership reached 50% of all repeaters last April and now totals 57% of all repeaters in the 5-state area. In percentage, South Carolina leads with 67% of all repeaters in the state Full Members of our organization. Second is Virginia with 65% and then North Carolina with 61%. Our other two districts have not quite reached the 50% mark, but both are at all-time highs in membership. West Virginia has 49% and Tennessee has 45%.

In addition, even though Georgia has never applied for District Status in CVRA-SERA, 18% of the repeaters in that State have chosen to become part of our organization. The state of Alabama has 3 repeaters who are members.

Eastern Kentucky, a portion of the state bordering Tennessee and cut off from the rest of the state by mountains has 10 repeaters of which 5 are Full Members of CVRA-SERA.

Full Membership in CVRA-SERA is only available to clubs, individuals or organizations who own or operate repeaters. Membership is $8.00 per year with renewals due January 1st each year. Full membership repeaters name two representatives to CVRA-SERA who have voting rights when needed and have a voice in our organization. Our Directors, Vice-Directors and all officers are Full Members. Each Full Member also receives the Repeater Journal.

Our other form of membership is for Repeater users and is called Associate Membership. Cost is $4.00 per year. Associate Members have no voting rights, but may hold appointive offices on committees. Each receives the Repeater Journal.

Here is a breakdown of our Districts as of July 1st.

STATE	FULL MBRSHIPS	REPRES # RPTRS	TOTAL ALL RPTRS	% MBR 1-1-84	% MBR 4-1-84	% MBR 7-1-84
SC	39	50	75	46.6%	56%	67%
VA	65	86	132	47.6%	53%	65%
NC	91	115	187	46.1%	56%	61%
WV	27	33	68	33.9%	40%	49%
TN	52	85	189	31.5%	41%	45%
GA	19	23	127	—	15%	18%
EKY	5	5	10	—	50%	50%
ALA	2	3	—	—	—	—
TOTAL ALL	300	400	790	—	—	—
CVRA ONLY	274	369	653	41%	53%	57%

Repeaters in Northern Virginia are not counted because they fall under the boundaries of T-MARC (The Middle Atlantic Amateur Repeater Council) for coordination.

The Repeater Journal will publish a full sized Full Membership Application in the November issue to enable repeater owners and operators who have never been members and otherwise might not be able to obtain a copy of the application a chance to join for the 1985 year. Members on record of 1984 do NOT need to use this special printed application because renewal applications will be mailed to each representative in late November.

G.I.S.M.O.

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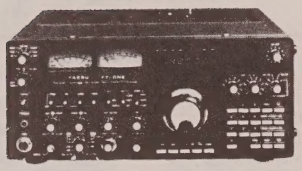
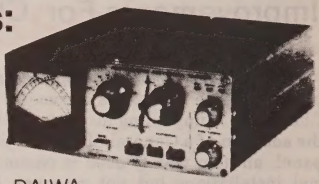
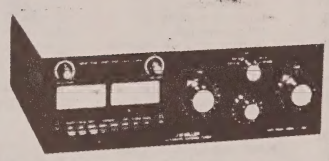

YAESU


DAIWA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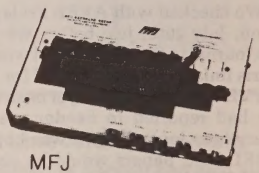
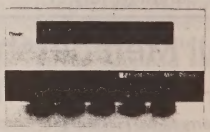

MFJ

DRAKE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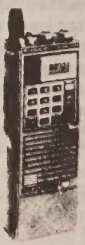
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#10 wire.....30¢ per foot #14 wire.....20¢ per foot

FUSE BLOCKS – Our fuse blocks are rugged holding fuses much larger than the little 3AG glass type. This prevents overheating and voltage loss with high currents. Set screws in end of fuse blocks will accept wire up to #6.
30-Amp. Fuse Block ...$3.50 60-Amp. Fuse Block ...$4.50

FUSES—5,6,7,8,10,20,25,30 Amp ....80¢ each
35,40,45,50 & 60 Amp. Fuses also available upon request.

RELAYS—These Motorola Type A style relays can be installed near the fuse block in the fenderwell and remotely switched under the dash with a small toggle switch. Excellent for switching high current lines. Relays are a closed type with screw terminals for mounting. .....Special $13.95

40-Amp cont. duty, solenoid-type, 12V 19.95
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OTHER ACCESSORIES AT GOOD PRICES!!

GUY WIRE INSULATORS – Compression-type porcelin. Approx 1½x2½-inches, 3/8-inch hole
Insulators .....$2.00 each 10 or more ....$1.80 each

STEEL WIRE – Zinc coated. Can be used for antennas or light guy wire, not recommended for tower guying. Sold in 10 lb. coils only.
#12½-approx. 382-feet...$13.00 #9-approx. 170-feet $13.00

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PL-259 CONNECTORS (U.S. Made) .....65¢ ea.
10 or more .....60¢ ea.
UG-175 or 176 ADAPTERS.....30¢ ea.
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CLASSIFIED

Repeater Journal Classified ads are available to members to advertise Amateur and Electronic items for sale, buy, swap or trade. Items need not necessarily be electronic related. The CVRA-SERA assumes no responsibility as to the accuracy of description of equipment or its condition. Total responsibility lies with the advertiser and the buyer. CLASSIFIED AD RATE: Non-commercial or Commercial, $2.50 per ad. Enclose check with ad in advance of publication. Please limit classifieds to a maximum of 30 words.

DEADLINE FOR CLASSIFIED: 20th of Month, second Month prior to publication. Deadline dates are Dec. 20, Mar. 20, June 20, Aug. 20 for Feb, May, Aug, Nov. issues respectively.

KENWOOD TWINS, For Sale, R599D-T599D. Excellent condition with all cables and boxes. Both for $425.00 K4VJO, Sonny Adkins, 2110 Cheltenham Blvd., Greensboro, N.C. 27408. Phone: Evenings (919) 294-0776. Day (919) 288-5131.

• • •

POOR JOE! He finally found his way home. Someone left a Repeater Journal at the Heathkit Store. He looked up his home repeater, called his wife and she came and met him and took him home. NOW Poor Joe won't leave home without his Repeater Journal.

• • •

ADOPT "MITZIE". See Williams Radio ad this issue. We now have the AEA Isopole in stock. 2-Meters and 220 for $45.00, 440 mHz. Isopole for $65.00. Add $1.75 shipping UPS. N.C. residents add 4½% Sales Tax.

MAYSVILLE HAMFEST

The Maysville Hamfest Club will be holding their annual hamfest on October 14 at the Maysville Community Park in Maysville, N.C. from 9 a.m. to 3 p.m. There is no admission charged, but tickets may be purchased for the drawing of prizes. Talk-in will be on the Grifton 085-685 repeater. (WD4JYR, Jo Ann Taylor)

Upcoming ARRL Events

AUGUST
4-5 – UHF Contest
7 – WiAW Qualifying Run
25 – W1AW Qualifying Run

SEPTEMBER
6 – West Coast Qualifying Run
8-9 – VHF QSO Party
12 – W1AW Qualifying Run
21 – W1AW Qualifying Run

OCTOBER
3 – West Coast Qualifying Run
6-7 – ARRL QSO Party, CW
11 – W1AW Qualifying Run.
13-14 – ARRL QSO Party, Phone
20-21 – Simulated Emergency Test
28 – W1AW Qualifying Run

NOVEMBER
1 – West Coast Qualifying Run
3-4 – Sweepstakes, CW
9 – W1AW Qualifying Run
17-18 – Sweepstakes, Phone
19 – W1AW Qualifying Run

DECEMBER
1-2 – 160 Meter Contest
5 – West Coast Qualifying Run
8 – W1AW Qualifying Run
8-9 – 10 Meter Contest
27 – W1AW Qualifying Run

Coming Events

1984 HAMFEST DATES

AUGUST

5 ..... SVARC Hamfest (Winchester), BERRYVILLE, VA.
4-5 ..... Hamfest, JACKSONVILLE, FLA.
18-19 ..... Hamfest, HUNTSVILLE, ALA.
25-26 ..... Hamfest, MADISON, GA.
26 ..... Hamfest, BLUEFIELD, WVA.

SEPTEMBER

1 ..... Annual CVRA-SERA Meeting, SHELBY, N.C.
1-2 ..... Hamfest, SHELBY, N.C.
8 ..... Jax Cty ARC Hamfest, RIPLEY, W.VA.
8 ..... Tri-Cities Hamfest, GRAY, TN.
9 ..... Hamfest, GAITHERSBUR, MD.
15-16 ..... Hamfest, MOBILE, ALA.
22-23 ..... Roanoke Div. ARRL Conv., VIRGINIA BEACH, VA.
22-23 ..... York Hamfest, YORK, PA.
29-30 ..... Gr. Lakes ARRL Div. Conv., LOUISVILLE, KY.

OCTOBER

7 ..... Hamfest, ROCK HILL, S.C.
13-14 ..... Hamfest, WARNER ROBINS, GA.
14 ..... Hamfest, MAYSVILLE, N.C.
20 ..... Tri-Cities Hamfest, GRAY, TN.
27-28 ..... Tenn. State ARRL Conv/Hamfest, CHATTANOOGA, TN.

NOVEMBER

4 ..... Hamfest, CONCORD, N.C.
10-11 ..... Hamfest, STONE MT., GA.
24-25 ..... Hamfest, GREENSBORO, N.C.

Bring Your Friends To The CVRA-SERA Booth At Your Local Hamfest and Let Them Join us and Receive the Award Winning Repeater Journal

Director and Vice Director Nomination Time This Fall

When the CVRA-SERA board of Directors meet at Shelby on Labor Day Weekend, President Carter will appoint a nominating committee to seek nominations for Director and Vice-Director of all five CVRA-SERA Districts.

The Director and Vice-Director jobs are the most important jobs in the organization as far as coordination and communications are concerned. The Director runs CVRA-SERA in his respective District, with the help of his Vice-Director.

These two officers are nominated and elected by Full Members of each individual District. If there are more than one for any office, an election by written ballot of all Full Members in that District is held.

If you, or someone you know feels qualified and would like to take on the very important job of Director or Vice-Director for CVRA-SERA in your District, write our Secretary (Her name and address is on page 2) and she will give your letter to the Nominating Committee when they are named.

Most all of our Directors have served more than one term and have expressed a desire to step down, so about every State will have vacancies for that office.

Think carefully, and look hard. Your Director is the man that coordinates repeaters in your area. You want someone who will do the job right and continue to make your area trouble-free from repeater interference.

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For Assistance in Repeater Coordination, Frequency Coordination, Changes in Repeaters, and Any other Assistance You May Require from the CVRA. Contact Your Local Director or His Assistant.

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